



Saskatchewan
Environment

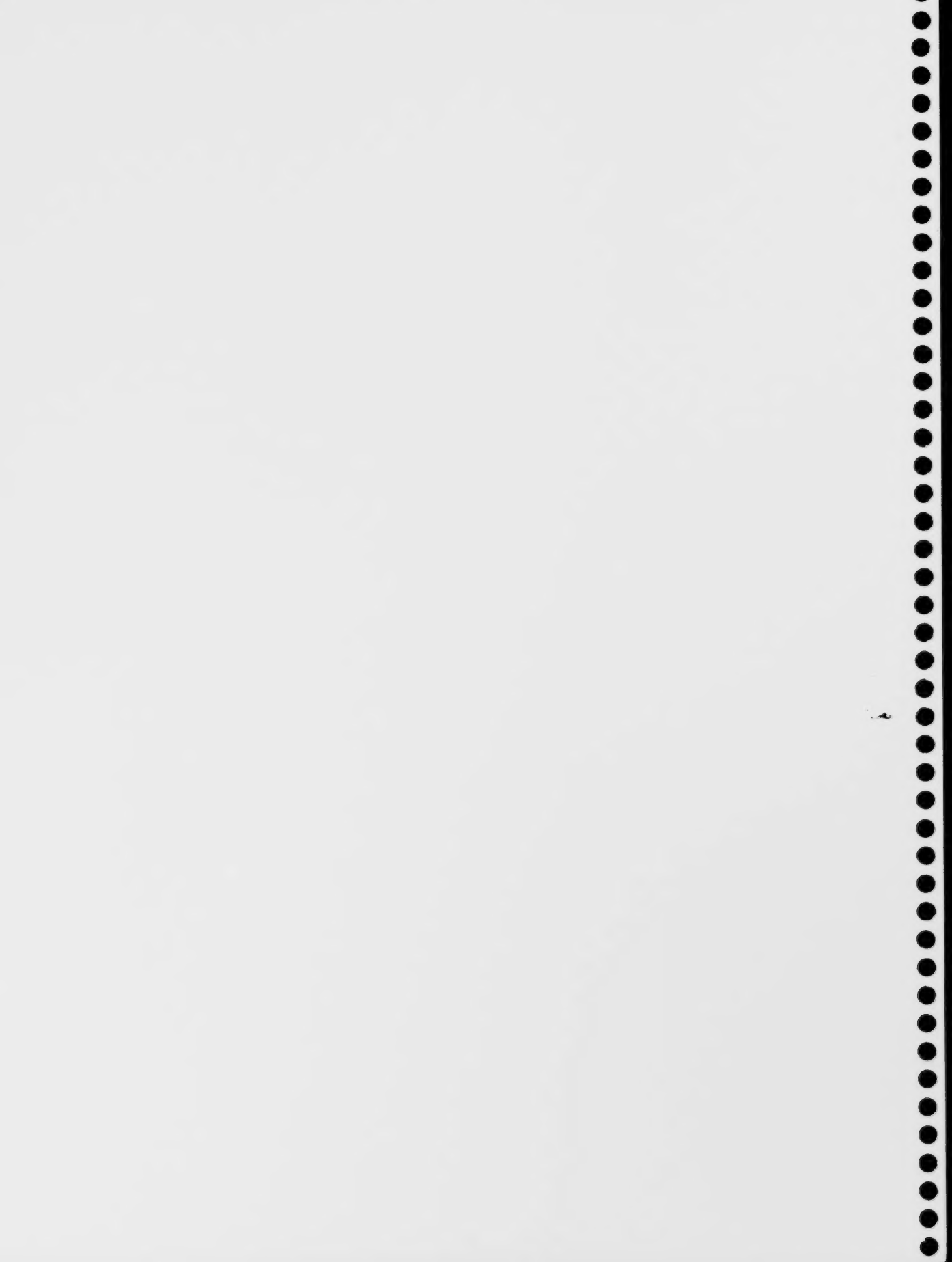
2000

Survey of Sport Fishing in Saskatchewan



Resource Technical Report 2006-1





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June 2006

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Acknowledgments

The author gratefully acknowledges the analytical expertise and assistance of Mr. Lewis Sonsini and Mr. Keith Brickley, Statistical Services, DFO, Ottawa. The author also wishes to thank Rochelle Joerissen for assistance in the preparation details of this report, as well as Rob Wallace and Jennifer Merkowsky for editorial comments.

Executive Summary

The 2000 survey of sportfishing in Saskatchewan was produced by mailing questionnaires to a random sample of licenced anglers who fished there in 2000. This study was conducted to provide information on the numbers, origins and destinations of anglers; the numbers, weight and species of fish harvested; the amount of fishing effort expended; and the expenditures and investments in activities and equipment used for angling.

Angler Profile

There were 182,965 licenced anglers in Saskatchewan in 2000. This translates to an estimated 233,120 active anglers consisting of 171,982 active licenced adult anglers and an estimated 61,139 children under 16 who do not require an angling licence. There were 130,076 active Saskatchewan resident anglers of which 12,984 were seniors. Non-resident active anglers numbered 41,906 with almost half originating from the United States. The average age of all adult anglers was 44 years. There has been a steady decline in the number of angling licences sold since 1980. The rate of decline from 1995 to 2000 was 1%, equal to that of the decline from 1990 to 1995.

Of the 182,965 licenced anglers, over 46% of Saskatchewan residents originated from southern Saskatchewan with 54% originating from central Saskatchewan. The West Central area was the only area to show an increase in anglers from the previous survey. Non-resident Canadians who purchased angling licences in Saskatchewan in 2000 numbered 21,528, with 17,483 or 81%, originating from Alberta. Other non-residents who purchased licences numbered 20,662, with five states making up 50% of the total: Montana, Colorado, North Dakota, Minnesota, and Illinois.

Sixty percent of active adult anglers indicated the North Central and South survey areas were the top two preferred areas to fish in 2000. The South area was the most preferred area by Saskatchewan residents with non-residents preferring to fish in the North Central area.

Non-residents spent a total of 657,424 days in Saskatchewan with 275,177 of these days spent fishing. Seventy-four percent of U.S. non-residents would not have come at all if there had been no fishing opportunities, compared to 34% for Canadian non-residents.

Fishing skills were rated as average by over 50% of anglers. Sixty-nine percent of anglers practiced catch and release voluntarily in 2000. Forty percent of angler rated their fishing experience in Saskatchewan as excellent or very good. Forty-eight percent of U.S. residents rated their fishing experience as very good, an increase from 32% in 1995.

Angler Fishing Effort

Anglers in Saskatchewan fished an estimated 2,064,475 days in 2000 with Saskatchewan residents concentrating 45% of their effort in the South and Qu'Appelle areas whereas non-residents spent 37% of their effort in the North and North Central areas. The number of angler days expended by active adult anglers in 2000 demonstrated a decrease from 1995 of 169,773 days, or 7.6%. On average, anglers fished for 12.0 days per angler in 2000, which was less than the 12.6 days per angler in 1995. Anglers spent 334,344 days fishing through the ice, which constitutes 16% of the total angler days.

With 30.8% of their angler days, Saskatchewan resident anglers favoured the South area for fishing whereas non-residents favoured the North Central area with 27.3% of their angler days. These preferred areas have not changed since 1980.

Anglers responding to this survey indicated they had fished on 685 separate lakes in 2000. The five most popular lakes by respondents were Diefenbaker, Last Mountain, Tobin, Rafferty, and Blackstrap, respectively.

Angler Harvest

A total of 11.4 million fish were caught with 3.4 million fish kept for a total weight of 2.7 million kilograms by anglers in Saskatchewan in 2000. Ninety percent of the harvest was comprised of perch, walleye and pike respectively. The majority of the province's harvest came from the southern fisheries management zone; 2.2 of the 3.4 million fish harvested came from this zone. Saskatchewan residents kept 36% of fish caught of all species whereas non-residents kept only 13%.

The average weight of fish kept of all species by Saskatchewan residents was 0.8 kg versus 1.0 kg by non-residents. The average number of fish kept per angler day for all species was 1.66 fish which continues a steady decline since a high of 2.65 fish per angler day. The average number of fish kept by an individual angler of all species was 20.0 fish.

Over 200 lakes and streams are stocked with non-native trout comprised mainly of rainbow, brook, and brown trout and splake. Rainbow trout was the preferred species and comprised 92% of the total stocked trout harvest.

Anglers caught a total of 4,193 sturgeon, with zero harvest due to the elimination of the daily catch limit.

Angler Expenditures and Investments

There was \$108,167,298 spent on purchases directly attributable to sportfishing made by anglers in 2000. Food and lodging, transportation, and packages accounted for 85% of this total. Overall, anglers spent an average of \$629 per angler with Saskatchewan residents average \$439 per angler and non-residents averaged \$1,228 per angler. Sportfishing expenditures have increased by more than 250% since the 1980 survey when \$41,881,141 was spent.

Expenditures made in Saskatchewan in 2000 averaged \$52.39 per angler day overall with residents averaging \$31.94 per angler day and non-residents averaging \$185.37 per angler day. This translates to a cost per fish kept for residents of \$18.84, with \$126.89 for non-residents and a total average of \$31.48 per fish. The cost per kilogram shows the residents cost at \$24.83, with a non-residents cost of \$126.16 per kilogram and a total average of \$29.97.

Major purchases and investments made in Saskatchewan relating in whole or in part to sportfishing totaled \$146,831,714. This averages out to \$854 per angler with Saskatchewan residents averaging \$1,033 per angler and non-residents averaging \$295 per angler. Residents invested the largest amount on special vehicles at \$45,046,237 or 34% of their total investments. In comparison, non-residents spent \$8,091,973 on land and buildings, which accounts for 65% of their total investments.

Investments made that were wholly attributable to sport fishing totaled \$72,944,840, which averages out to \$424 per angler. Of these investments, residents invested the largest amount on boats at \$28,727,100 whereas non-residents invested the largest amount in land and buildings at \$5,296,259.

Conclusion

As was seen in previous surveys, sport fishing in Saskatchewan is an important economic component of the natural resource sector in the province. It is estimated that anglers spent \$108,167,298 on activities directly associated with sport fishing. These included expenditures for accommodation, food, travel, bait and licences etc. Anglers also invested \$146,831,714 on major purchases and investments such as boats, special vehicles, and property etc. of which \$72,944,840 was used for angling. In all, anglers invested more than \$254 million, of which \$181 million was wholly attributable to angling in Saskatchewan.

Economists generally agree that the first round of expenditures in the business world does not adequately reflect the full impact of the spending described above. As money circulates through the economy, the effect increases by a factor of 1.5 or greater. This factor increases the economic impact of sport fishing in Saskatchewan to about \$381 million in 2000.

As a result of this survey, it can be concluded that angling in Saskatchewan is a fishery of major proportions. Over 233,000 anglers fished in 2000, including over 61,000 anglers under the age of 16. Residents of Saskatchewan accounted for almost 179,000 of these anglers. Anglers fished for over 2 million angler days and harvested 3.4 million fish of all species. They spent \$108 million on activities directly associated with sport fishing and invested over \$146 million on major durables and property used in whole or in part for angling.

Table of Contents

	Page
Executive Summary	i
List of Tables	vi
List of Figures	ix
Introduction.....	1
Survey Background.....	1
The Resource Base.....	2
Angler Profile.....	3
Numbers	3
Origins	6
Preferences.....	7
Non-residents.....	12
Opinions	14
Angler Fishing Effort.....	16
Angler Harvest	24
All Species.....	24
Stocked Species	38
Sturgeon.....	38
Angler Expenditures and Investments	41
Expenditures.....	41
Investments.....	41
Conclusions.....	50
Appendices.....	51
A. Questionnaires used in 2000.....	52
B. Angler Harvest.....	68
C. Average weights of fish for each species and management zone.....	95

List of Tables

	Page
Table 1. Native and introduced fish species sought after by anglers in Saskatchewan.	2
Table 2. Numbers and characteristics of anglers in Saskatchewan, 2000	4
Table 3. Comparison of average ages of anglers in Saskatchewan, 1980-2000.	5
Table 4. Comparison of numbers of anglers in Saskatchewan, 1980-2000	5
Table 5. Numbers of active resident and non-resident adult anglers in Saskatchewan, 1980-2000	5
Table 6. Estimated numbers of Saskatchewan resident anglers by area of residence in Saskatchewan, 1980-2000	7
Table 7. Origin of non-resident licenced anglers who fished in Saskatchewan, 1980-2000	9
Table 8. Numbers of active anglers who fished in each area of Saskatchewan, 2000	12
Table 9. Relative importance of information sources used by non-resident anglers in Saskatchewan in 2000	13
Table 10. Non-resident trip information, Saskatchewan 2000	13
Table 11. Non-resident visit alternatives if there had been no fishing opportunities in Saskatchewan, 1980-2000	14
Table 12. Average number of years of fishing experience per respondent and their rating of their fishing skills, Saskatchewan 2000	15
Table 13. Proportion of anglers practicing catch and release, and their reasons, Saskatchewan 2000	15
Table 14. Rating by respondents of recreational fishing in Saskatchewan, 2000	16
Table 15. Rating by non-resident respondents of their fishing experience in Saskatchewan, 1980-2000	16
Table 16. Numbers of angler-days expended by active adult anglers in each fisheries management zone of Saskatchewan, 2000	17
Table 17. Numbers of angler-days expended by active adult anglers in each fishing area of Saskatchewan, 1980-2000	19
Table 18. Average number of angler-days per angler, Saskatchewan 1980-2000	22

Table 19.	Number and proportion of angler-days spent ice fishing, Saskatchewan 2000	22
Table 20.	Ranking of waterbody in terms of number of respondents who fished there, Saskatchewan 2000	23
Table 21.	Estimated total number of anglers who fished each lake in 2000	23
Table 22.	Numbers of fish caught by active adult anglers in Saskatchewan, 2000	26
Table 23.	Numbers of fish kept by active adult anglers in Saskatchewan, 2000	27
Table 24.	Estimated weight of fish kept by active anglers in Saskatchewan, 2000	28
Table 25.	Numbers of fish harvested in each fisheries management zone by active anglers in Saskatchewan, 2000	30
Table 26.	Average weights of fish kept by active anglers in Saskatchewan, 1980-2000	31
Table 27.	Numbers of fish caught and kept by anglers in Saskatchewan, 1980-2000	32
Table 28.	Proportion of fish kept by active adult anglers in Saskatchewan, 2000	33
Table 29.	Proportion of fish kept by active anglers in Saskatchewan, 1980-2000	34
Table 30.	Average number of fish kept per angler-day in Saskatchewan in 2000	35
Table 31.	Average numbers of fish kept per angler-day in Saskatchewan, 1980-2000	37
Table 32.	Average number of fish kept by individual active adult anglers in Saskatchewan in 2000	39
Table 33.	Average numbers of fish kept per individual active adult angler in Saskatchewan, 1980-2000	40
Table 34.	Expenditures directly attributable to sport fishing by total licenced adult anglers in Saskatchewan, 2000	42
Table 35.	Expenditures directly related to sport fishing in Saskatchewan, 1980-2000	43
Table 36.	Expenditures per angler-day in Saskatchewan, 1980-2000	45
Table 37.	Expenditures per fish and per kilogram of fish caught and kept by anglers in Saskatchewan, 1980-2000	46
Table 38.	Major purchases and investments relating in part or in whole to sport fishing in Saskatchewan in 2000	47

Table 39.	Major purchases and investments attributable to sport fishing in Saskatchewan in 2000	47
Table 40.	Major purchases and investments relating in part or in whole to sport fishing in Saskatchewan, 1980-2000.....	48
Table 41.	Major purchases and investments, in total and for fishing, in Saskatchewan, 1980-2000.....	49

List of Figures

	Page
Figure 1. Estimated number of Saskatchewan resident anglers by area of residence, Saskatchewan, 2000	8
Figure 2. Numbers of non-resident Canadians who held angling licences in Saskatchewan, 2000	10
Figure 3. Regional distribution of United States residents who held angling licences in Saskatchewan in 2000	11
Figure 4. Percentage of angler-days expended by anglers in each fishing area of Saskatchewan in 2000	20
Figure 5. Percentage of angler days expended by anglers in the major fishing areas of Saskatchewan, 1980-2000	21
Figure 6. Estimated number of anglers per year and anglers per hectare for the most popular fishing destinations in Saskatchewan, 2000 (rivers excluded)	24
Figure 7. Comparison of recreational harvest, Saskatchewan 2000	29

Introduction

Data on sport fishing in Saskatchewan was gathered in 2000 to provide fishery managers with information on the importance of this fishery. The data gathering and preliminary screening was performed by Saskatchewan Environment and the statistical analysis and extrapolation was done by Surveys Unit, Economic Analysis and Statistics Division of Canada Fisheries and Oceans.

This report is the sixth in a series of surveys that are conducted in five year intervals. The series was started with the "1975 Survey of Sportfishing in Saskatchewan". These surveys are part of a national study by various provincial, territorial, and federal fisheries agencies and provide basic information on Saskatchewan's recreation fishery as well as contributing to a better understanding of Canada's recreational fishery as a whole.

In keeping with the style and approach of previously written reports on the national quinquennial surveys of Sportfishing, there remain a large number of tables incorporated in this report.

The reasons for this remain the same. First, tables provide more detail in order to serve as a reference. Second, the questionnaires have become complex and tables provide an efficient means of summarizing the results. Third, to gain a time perspective, it is useful to compare results from the 2000 survey with earlier results and some readers may not have access to previous reports, therefore, comparisons have been provided.

In previous reports, the breakdown between licenced resident anglers whom are seniors (over 65 years of age) and those under 65 was performed on most of the questions asked in the survey. In this report, several of these analyses are not broken down as they have been in the past. In future reports, we will strive to separate this information as best as possible in the analysis stage with the Department of Fisheries and Oceans.

Survey Background

Representatives from Canada's fisheries agencies began meeting periodically starting in 1970 to discuss common concerns. There was a need for basic information to assess the size, value, socioeconomic performance and the potential of the sportfishery. All Canadian fisheries agencies agreed to work together to obtain consistent and comparable data. The first survey of 1975 fishing was successful and they have continued every five years.

In the 2000 survey, a total of 5416 questionnaires (Appendix A) were sent in early 2001 to individuals who purchased a fishing licence in Saskatchewan in 2000. A total of 3720, or 56% of the surveys were completed and returned to form the basis of this report. To provide an overall description of sportfishing in Saskatchewan in 2000, the questionnaire data were extrapolated (see Appendix B in 1995 Survey of sportfishing in Saskatchewan by Joerissen and Brickley) using actual licence numbers, comparing estimates and holding discussions with fisheries management staff.

The Resource Base

Currently there are 68 species of fish in Saskatchewan, of which anglers seek after 21. This is an increase from 65 species in 1980, of which anglers targeted 13. The main species taken are still pike, walleye and perch. There are currently six stocked trout species in the province (Table 1).

Table 1. Native and introduced fish species sought after by anglers in Saskatchewan.
Asterisk denotes stocked trout species.

Common Name	Scientific Name
Northern pike	<i>Esox lucius</i>
Walleye	<i>Sander vitreus</i> formerly <i>Stizostedion vitreum</i>
Yellow perch	<i>Perca flavescens</i>
Lake trout	<i>Salvelinus namaycush</i>
Lake sturgeon	<i>Acipenser fulvescens</i>
Lake whitefish	<i>Coregonus clupeaformis</i>
Goldeye	<i>Hiodon alosoides</i>
Arctic grayling	<i>Thynallus arcticus</i>
Burbot	<i>Lota lota</i>
Sauger	<i>Sander canadensis</i>
Smallmouth bass	<i>Micropterus dolomieu</i>
Largemouth bass	<i>Micropterus salmoides</i>
Common carp	<i>Cyprinus carpio</i>
Rock Bass	<i>Ambloplites rupestris</i>
Channel Catfish	<i>Ictalurus punctatus</i>
Rainbow trout*	<i>Oncorhynchus mykiss</i>
Brook trout*	<i>Salvelinus fontinalis</i>

Brown trout*	<i>Salmo trutta</i>
Splake*	Hybrid Lake trout X Brook trout
Cutthroat trout*	<i>Salmo clarki</i>
Tiger trout*	Hybrid Brown trout X Brook trout

Saskatchewan is home to more than 94,000 lakes with a total surface area of over 67,000 square kilometers. There are probably fish populations in approximately half of these lakes. Over 90% of the lakes in the province are in the northern half (north of 54°), while about 96% of the human population lives in the southern half. Many lakes in the north are accessible only by float plane in summer or snowmobile in winter making those that are road accessible very attractive to anglers.

Angler Profile

Licensed anglers were categorized into four categories and are defined as follows:

- **Licensed resident adult anglers** – consist of those anglers between the ages of 16 and 64 who are residents of Saskatchewan
- **Senior resident anglers** – consist of those anglers over the age of 65 who are residents of Saskatchewan
- **Non-resident Canadian anglers** – consist of those anglers who are residents of Canada but do not reside in Saskatchewan
- **Non-resident Other anglers** – consist of those anglers who are not residents of Canada.

These are occasionally referred to as U.S. residents

Numbers

There were 182,965 licensed anglers in Saskatchewan in 2000 (Table 2). This extrapolates to an estimated 233,120 active anglers which includes 171,982 active licensed anglers and an estimated 61,139 children under 16 years that do not require angling licences.

Table 2. Numbers and characteristics of anglers in Saskatchewan, 2000.

	Resident			Non-Resident			Total
	Licenced ^a	Senior	Total	Canadian ^b	Other	Total	
Licenced Anglers	124,506	16,266	140,772	21,529	20,664	42,193	182,965
Estimated active adult anglers							
Males	...	...	90,919	17,161	18,365	35,526	126,445
Average age	...	...	45	45	50	48	45
Females	...	...	39,157	4,173	2,207	6,380	45,537
Average age	...	...	42	44	46	45	42
Totals	117,092	12,984	130,076	21,334	20,572	41,906	171,982
Average age	...	...	45	45	50	48	44
Estimated anglers under 16 years of age ^c	...	...	48,890	8,501	3,748	12,249	61,139
Total active anglers (All ages)	...	...	178,966	29,835	24,319	54,154	233,120

^a Individuals who purchased angling licences in Saskatchewan in 2000.

^b Canadians who live in provinces/territories other than Sask. and who fished in Sask. in 2000.

^c Only households of licenced anglers were surveyed.

Among the active adult anglers, 130,076 were Saskatchewan residents and 41,906 were non-residents. This translates to approximately 92% of resident and 99% of non-residents who purchased licences actually fished in 2000. The majority of resident anglers were males (70%), lower than non-residents (84%).

The average age of all adult anglers in Saskatchewan in 2000 was 45 years, up slightly from 44 years in the previous survey (Table 3). The average age of anglers in Saskatchewan has been increasing since the 1980 survey.

There were 9% fewer active anglers of all ages in Saskatchewan in 2000 compared to the 1995 survey (Table 4). There has been a steady decline in the number of active adult anglers since the 1980 survey with the exception of a 3% rise in 1995 (Table 5).

The estimated number of children has decreased by 22% since the 1990 survey, following a 60% increase in the previous report (Table 4). This decrease is the main reason for the overall decrease in the total number of active anglers. The number of licenced resident anglers decreased by 2,879, while non-resident anglers decreased by 2,045 compared with 1995 (Table 5).

Table 3. Comparison of average ages of anglers in Saskatchewan, 1980-2000.

Year	Resident			Non-resident	
	Licenced	Senior	Total	Canadian	Other
1980	40.8	38.3	44.9
1985	42.4	41.4	47.3
1990	43.8	41.6	47.39
1995	40.2	70.1	43.4	43.1	48.7
2000	44.6	45.1	49.5

Table 4. Comparison of numbers of anglers in Saskatchewan, 1980-2000.

	1980	1985	1990	1995	2000
Licences sold	216,373 ^a	202,377 ^a	185,740 ^a	184,226 ^b	182,965 ^b
Active adult anglers	181,342	179,461	171,754	176,905	171,981
Children	47,123	69,438	48,852	77,952	61,139
Total active anglers	228,465	248,899	220,606	254,857	233,120

^a Total includes one-day licences: 9,681 in 1980; 1,832 in 1985; and 2,062 in 1990;^b Total includes three-day licences: 8,361 in 1995 and 11,838 in 2000

Table 5. Numbers of active resident and non-resident adult anglers in Saskatchewan, 1980-2000.

Year	Resident			Non-Resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
1980	...	...	133,846	28,264	19,232	183,197	183,197
1985	125,567	12,004	137,571	23,152	18,738	41,890	179,461
1990	116,648	16,756	133,404	20,206	18,144	38,350	171,754
1995	118,913	14,042	132,955	21,985	21,965	43,950	176,905
2000	117,092	12,984	130,076	21,334	20,571	41,905	171,981

Origins

The estimated 233,120 active anglers in 2000 comprised of 78% Saskatchewan residents, 13% from other Canadian provinces and territories, and 9% from the United States (Table 2). The distribution of resident anglers in the North and North Central survey areas mirrors that of the distribution of Saskatchewan's population with 1.8% of the angler population in an area that makes up over half the area of the province (Figure 1). Resident anglers from the South and Qu'Appelle survey areas totaled nearly half of all anglers.

In the 1995 survey it was noted that the number of anglers fishing in the Qu'Appelle area has been decreasing since 1985. In the 2000 survey this number appears to have leveled off (Table 6). There are fluctuations within the other survey areas of the province, however, of note are a steady increase in the West Central area and a decrease in the South area of 29% since 1985. Similar to results from previous surveys, approximately half of all non-resident anglers in Saskatchewan were from Canada (Table 7). Anglers from Alberta have increased since the 1995 survey, comprising 81% of all Canadian anglers visiting Saskatchewan in 2000. Anglers from Manitoba comprised 10% while those from British Columbia represented 6%. Anglers from most provinces and territories were represented in the survey with the exception of the Yukon Territory and all the Maritime Provinces with the exception of Nova Scotia (Figure 2). There was a decrease of 899 visiting Canadian anglers in 2000 compared to 1995 (Table 7).

The remaining half of visiting anglers to Saskatchewan in 2000 were from the United States, as there were no other countries represented in the survey (Table 7). Anglers from West-North Central and Mountain areas made up 65% of all US anglers visiting Saskatchewan (Table 7, Figure 3). The top five States in terms of number of visiting anglers were Montana (2,425), Colorado (2,251), North Dakota (2,177), Minnesota (2,094), and Illinois (1,262); collectively representing almost 50% of all US anglers (Figure 3). Following a steady decrease in visitation by US anglers from 1980 to 1990, this number increased in 1995 (Table 7). A decrease was once again seen in 2000 by 1,551 anglers, or 7%. Noteworthy changes in survey areas of visitation include decreases from West-North Central and Mountain areas, and an increase from the East-North Central.

Table 6. Estimated numbers of Saskatchewan resident anglers by area of residence in Saskatchewan, 1980-2000.

Area	1980	1985	1990 ^a	1995	2000
North	918	940	357	433	102
North Central	3,087	3,709	1,903	3,446	2,377
West Central ^b	42,962	36,657	42,340	46,073	50,983
East Central ^b	27,529	26,649	23,072	22,716	22,295
South	80,585	79,326	68,978	58,838	56,976
Qu'Appelle	11,762	13,312	9,752	8,080	8,040

^a In 1990 the numbers provided were of active anglers not licenced anglers. In order to accommodate a comparison of licenced anglers, a factor using percent of change from active to licenced anglers of .09743 was applied evenly across the areas.

^b In 1985 the West Central and East Central areas were each subdivided into two areas to permit the data to be assembled by fisheries management zone. The data from these four areas in Figure 1 were combined into two areas in this table.

Preferences

Sixty percent, or 103,070 of the total active anglers indicated that the North-Central and South survey areas were the most preferred areas (Table 8). Resident anglers had a clear preference for the four southern areas with 60% preferring these areas compared with 40% for the rest of the province. Non-resident anglers had a preference for the North and North Central areas with over 52%. Compared to non-resident anglers only 18% of resident anglers preferred the two northern areas. The most and least favoured areas for resident anglers were the South and North areas, respectively, while for non-residents it was North-Central and South, respectively (Table 8).

Anglers tended to fish in more than one area of the province, similar to previous surveys. Resident anglers, on average, fished in 1.62 areas and non-residents in 1.16 areas. These numbers are similar to results from the 1995 survey. In that survey it was indicated that anglers were traveling to fewer areas to fish compared to the 1990 survey.

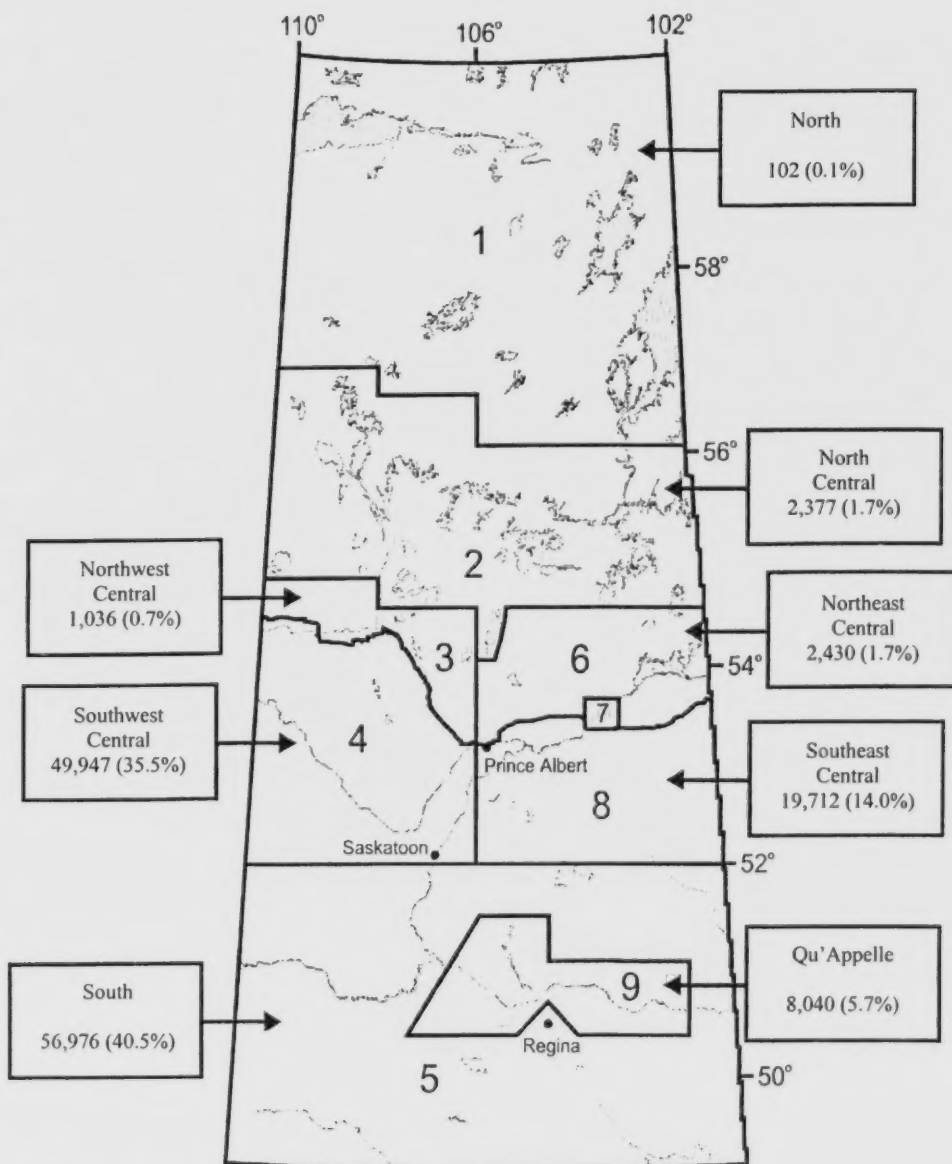


Figure 1. Estimated number of Saskatchewan resident anglers by area of residence, Saskatchewan, 2000.

Table 7. Origin of non-resident licenced anglers who fished in Saskatchewan, 1980-2000.

Province/State Group	1980	1985	1990	1995	2000
Canadian					
Alberta	15,991	15,305	13,471	14,861	17,483
British Columbia	3,338	3,424	1,723	2,576	1,201
Manitoba	8,580	3,859	3,681	3,305	2,052
Maritimes	0	0	78	221	38
NWT/Nunavut ^a	0	0	0	90	62
Ontario	1,543	1,352	1,880	1,288	654
Quebec	594	0	0	41	38
Yukon Territory	0	106	0	45	0
Canadian Totals	30,046	24,046	20,833	22,427	21,528
Non-Canadian					
Alaska, USA	0	0	72	0	0
East North-Central, USA	1,536	1,868	1,302	2,208	3,345
East South-Central, USA	266	0	72	292	263
Hawaii, USA	0	0	72	0	0
Mid-Atlantic, USA	199	422	289	249	427
Mountain, USA	4,710	6,526	5,132	6,540	6,025
New England, USA	0	0	0	84	66
Pacific, USA	724	1,444	1,735	830	944
South Atlantic, USA	266	338	506	544	1093
West North-Central, USA	10,129	6,950	8,313	10,716	7,441
West South-Central, USA	1,550	1,190	940	750	1,058
Other Countries	0	104	0	0	0
Non-Canadian Totals	19,484	18,738	18,505	22,213	20,662
Totals	49,530	42,784	39,338	44,640	42,190

^a Nunavut was created in 1999| the totals for NWT and Nunavut were added together for 2000.

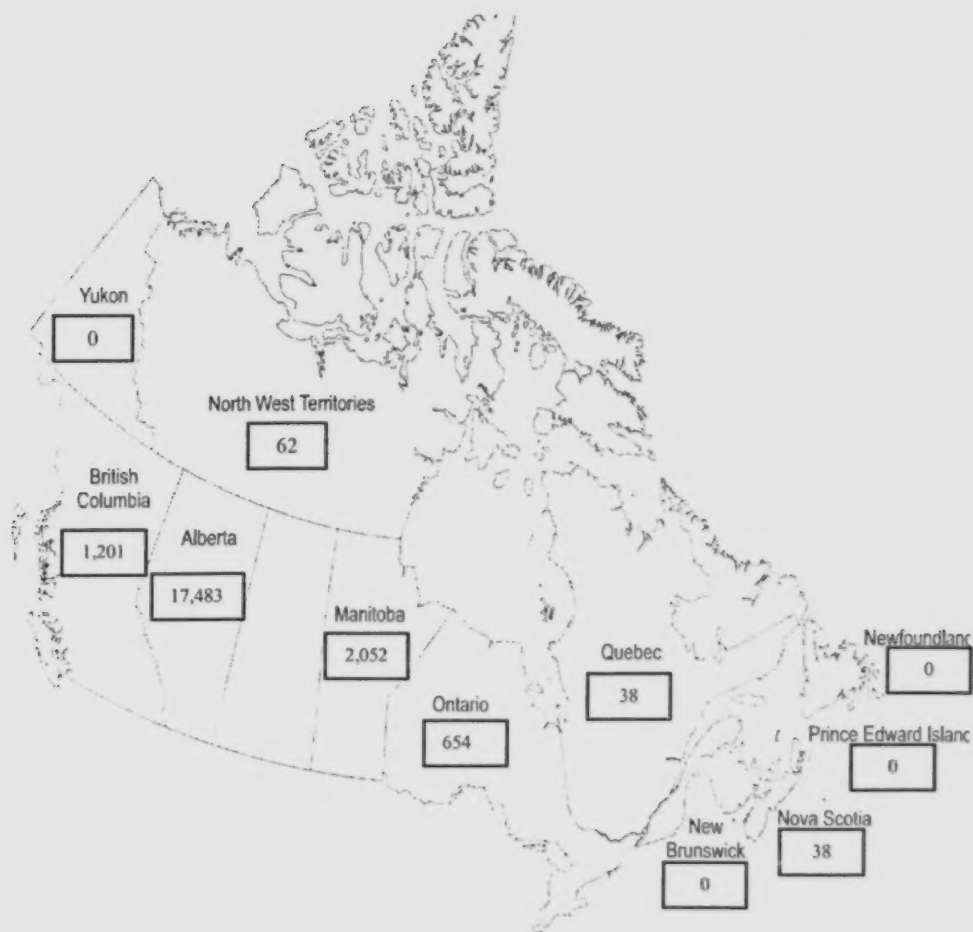


Figure 2. Numbers of non-resident Canadians who held angling licences in Saskatchewan, 2000.

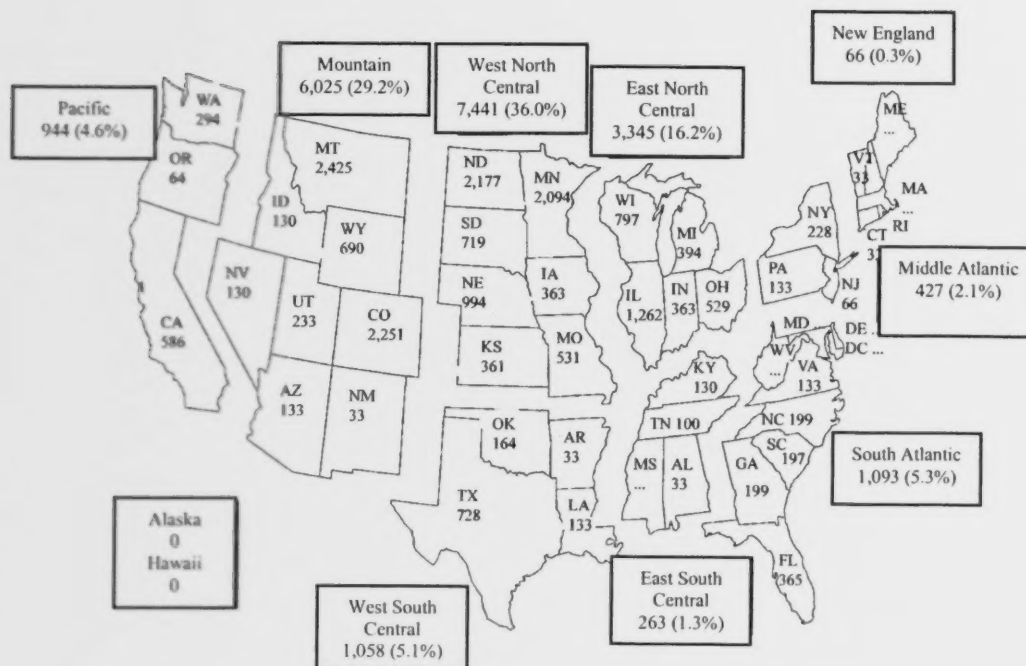


Figure 3. Regional distribution of United States residents who held angling licences in Saskatchewan in 2000.

Table 8. Numbers of active anglers who fished in each area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident			Total
		Canadian	Other	Total	
North	5,837	2,299	9,298	11,597	17,434
North Central	31,508	6,934	6,902	13,836	45,344
Northwest Central	16,673	5,212	299	5,511	22,184
Northeast Central	19,802	1,177	297	1,474	21,275
Tobin Lake	10,516	855	1,536	2,391	12,907
Southwest Central	29,456	4,899	391	5,290	34,747
Southeast Central	22,892	1,163	212	1,375	24,268
South	51,893	3,383	2,450	5,833	57,726
Qu'Appelle	22,252	484	748	1,232	23,484
Total number of anglers fishing in all areas ^a	210,829	26,406	22,133	48,539	259,369
Number of individual adult active anglers	130,076	21,334	20,571	41,905	171,981
Mean number of areas fished per angler	1.62	1.24	1.08	1.16	1.51

^a Number of anglers differ from Table 1 since anglers can fish in more than one area

Non-residents

The most popular means of finding information on fishing in Saskatchewan for non-residents was friends, family and other anglers (Table 9). This was a similar result to previous surveys. It was also indicated that U.S. anglers rely on brochures and sports shows more than Canadian anglers.

In 2000, non-residents made 241,930 trips to Saskatchewan and spent 657,424 days here for an average of 2.72 days per trip (Table 10). Canadian residents spent an average of 2.4 days per trip, almost half the duration of US anglers at 4.6 days per trip. Fishing trips accounted for 37% of the total number of trips made to Saskatchewan (Table 10). Similar to previous surveys, over 70% of non-residents would not have come to Saskatchewan if there had been no fishing opportunities (Table 11). Canadian residents would have substituted other activities if no fishing was available.

Table 9. Relative importance of information sources used by non-resident anglers in Saskatchewan in 2000. Factor ratings are: 1, never used; 2, sometimes used; 3, always used.

Rank	Factor	Non-resident		Total
		Canadian	Other	
1	Friends, family, other anglers	2.53	2.42	2.47
2	Brochures/Pamphlets	1.50	1.67	1.59
3	Outdoor/Sport shows	1.21	1.47	1.34
4	Internet	1.20	1.44	1.32
5	Newspapers/Magazines	1.26	1.27	1.26
6	Bait/tackle shops	1.29	1.19	1.24
7	Departmental/ Sask. gov't offices	1.26	1.17	1.22
8	Other	1.10	1.13	1.12
9	Travel Agent	1.02	1.17	1.10
10	Television/Radio announcement	1.09	1.07	1.08
11	Clubs/Associations	1.06	1.05	1.06

Table 10. Non-resident trip information, Saskatchewan, 2000.

Response	Non-resident		Total
	Canadian	Other	
Number of trips made to Sask.	206,850	35,080	241,930
Number of days spent in Sask.	495,884	161,539	657,424
Number of days/trip	2.4	4.6	2.72
Number of fishing trips to Sask.	58,870	29,891	88,761
Number of days fished	162,059	113,118	275,177
Number of days fished/trip	2.75	3.78	3.10
Of fishing trips, how many nights spent	193,289	121,182	314,471
How many day trips spent fishing	17,493	4,281	21,774

Table 11. Non-resident visit alternatives if there had been no fishing opportunities in Saskatchewan, 1980-2000.

Alternative	Canadian					Other				
	1980	1985	1990	1995	2000	1980	1985	1990	1995	2000
	%	%	%	%	%	%	%	%	%	%
Stayed a shorter time	17	18	17	23	24	12	10	7	7	12
Substituted other activities	59	47	50	52	40	17	15	22	15	13
Not come at all	24	35	23	25	34	71	75	62	78	74
Unknown	0	0	10	0	2	0	0	9	0	1
Totals	100	100	100	100	100	100	100	100	100	100

Opinions

Over all, over 50% of anglers rated their fishing skills as average (Table 12). Similar to previous surveys, roughly 50% of non-resident anglers rated their angling skills as experienced or expert, particularly non-residents of Canada. Resident anglers on average reported 20.2 years of fishing experience in Saskatchewan, compared to 7.8 for all non-residents.

In 2000, the percentage of anglers who practiced catch and release voluntarily increased slightly from the previous survey result of 68% to 69% (Table 13). As a whole, non-residents had a higher percentage practicing catch and release compared to resident anglers.

Anglers in Saskatchewan rated the recreational fishery as being good to excellent (74%), with only 26% rating it as fair or poor (Table 14). Nearly twice as many non-residents (62%) considered angling to be very good to excellent compared with residents (33%). Since the beginning of the surveys, non-residents have increasingly rated angling in Saskatchewan as very good or excellent (Table 15). American anglers continue to rate their angling experiences in Saskatchewan higher than non-resident Canadian anglers.

Table 12. Average number of years of fishing experience per respondent and their rating of their fishing skills, Saskatchewan, 2000.

	Resident			Non-Resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
	%	%	%	%	%	%	%
Expert	1	1	1	3	7	5	2
Experienced	27	17	26	42	55	48	31
Average	56	72	58	47	33	40	53
Beginner	16	10	15	8	5	7	14
Totals	100	100	100	100	100	100	100
Average years fished	...	...	20.2	10.5	5.1	7.8	17.3

Table 13. Proportion of anglers practicing catch and release, and their reasons, Saskatchewan, 2000.

	Resident	Non-Resident			Total
		Canadian	Other	Total	
	%	%	%	%	%
Proportion practicing catch and release					
Yes	81	90	96	93	84
No	9	10	4	7	16
Totals	100	100	100	100	100
Reasons for practicing catch and release					
Mandatory	2	3	9	6	3
Voluntary	76	59	44	51	69
Both	22	38	47	43	27
Totals	100	100	100	100	100

Table 14. Rating by respondents of recreational fishing in Saskatchewan, 2000.

	Resident			Non-Resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
	%	%	%	%	%	%	%
Excellent	11	5	11	18	48	33	16
Very Good	22	14	22	30	29	29	24
Good	38	35	38	29	14	22	34
Fair	20	32	20	16	6	11	18
Poor	9	14	9	7	3	5	8
Totals	100	100	100	100	100	100	100

Table 15. Rating by non-resident respondents of their fishing experience in Saskatchewan, 1980-2000.

Rating	Canadian					Other				
	1980	1985	1990	1995	2000	1980	1985	1990	1995	2000
	%	%	%	%	%	%	%	%	%	%
Excellent	15	10	17	16	18	44	28	34	32	48
Very Good	21	14	24	24	30	28	29	29	36	29
Good	36	36	30	32	29	21	24	20	18	14
Fair	18	19	16	18	16	5	10	12	10	6
Poor	10	21	11	10	7	2	9	4	4	3
Unknown	...	...	2	...	...	...	...	1	...	...
Totals	100	100	100	100	100	100	100	100	100	100

Angler Fishing Effort

Anglers fished an estimated 2,064,475 days in Saskatchewan in 2000 (Table 16). The Southern Management Zone accounted for 64% of this effort, with the central zone and northern zone accounting for 31% and 5%, respectively. Resident anglers spent 69% of their effort in the Southern management zone, while non-residents only spent 27% of their time there. Non-residents spent most of their time (48%) in the Central management zone, while residents only spent 29% of their time there.

Table 16. Numbers of angler-days expended by active adult anglers in each fisheries management zone of Saskatchewan, 2000.

Fisheries Management Zone	Survey Area	Resident			Non-resident			Total
		Licenced	Senior	Total	Canadian	Other	Total	
Northern	North	33,332	662	33,994	17,820	48,852	66,672	100,666
Central	North Central	188,059	15,967	204,026	40,019	35,188	75,208	279,234
	Northwest Central	89,063	8,561	97,624	38,022	1,594	39,616	137,241
	Northeast Central	123,656	14,445	138,101	6,395	928	7,323	145,424
	Tobin Lake	70,472	2,652	73,124	3,498	7,635	11,133	84,257
	Totals	471,250	41,625	512,875	87,934	45,346	133,280	646,155
Southern	Southwest Central	200,460	20,794	221,254	29,097	1,912	31,009	252,263
	Southeast Central	183,149	26,888	210,037	4,927	1,447	6,374	216,411
	South	496,304	54,171	550,475	19,336	12,742	32,077	582,552
	Qu'Appelle	245,384	15,279	260,663	2,945	2,820	5,765	266,428
	Totals	1,125,297	117,132	1,242,429	56,304	18,921	75,225	1,317,654
All		1,629,880	159,419	1,789,298	162,059	113,118	275,177	2,064,475

For the second survey in a row, fishing effort in the North and South survey areas increased while the overall number of angler days decreased (Table 17). Total effort decreased by 7.6% compared to the previous survey, with resident anglers decreasing by 8.1% and non-residents by 4.4%.

The North and North Central survey areas continue to be an important destination for non-resident anglers with 51.5% of their effort expended in these areas, compared to 13.2% for resident anglers (Figure 4). As shown in Figure 5, this preference for the northern areas by non-residents is continued from previous surveys, although the preference has shifted from North Central to the North. Effort by non-residents in these areas has fluctuated between a low of 43.4% in 1990 to a high of 60% in 1980. Residents, however, prefer the South and Qu'Appelle survey areas, spending 45.4% of all effort in these areas, compared to 13.8% for non-residents (Figure 4).

Anglers, on average, fished 12.0 days per angler in 2000, down from 12.6 in 1995 (Table 18). This decrease was mainly due to resident anglers fishing one day less per angler during 2000. As a whole, non-resident anglers fished slightly more than in 1995, with Canadians fishing 0.3 days more and non-Canadians fishing 0.3 days less.

There was a total of 334,344 days spent angling through the ice, which was 16% of the total angling effort in 2000 (Table 19). Resident anglers spent the most time ice fishing (18%), with non-Canadian non-residents spending the least (2%).

Angler preference for waterbodies in Saskatchewan relates to the geographical distribution of resident anglers (Table 20). Four of the top five destinations as indicated by the number of respondents who fished there are in the Southern Management Zone. The fifth lake, Tobin, ranked third over all, and is located in the Central Management Zone. This table reflects the experience of only those anglers surveyed and not the entire angling population. The estimated number of anglers fishing on each of these lakes was calculated (Table 21). To further understand the amount of pressure exhibited on these lakes, the number of anglers per hectare was calculated (Figure 6). As can be seen, the ranking of lakes based on anglers per hectare changes from ranking based on estimated number of anglers. The top five lakes based on this ranking are all in the southern zone.

Table 17. Numbers of angler-days expended by active adult anglers in each fishing area of Saskatchewan, 1980-2000.

Fishing Area	1980	1985	1990	1995	2000
Resident					
North	78,248	43,267	41,925	44,992	33,994
North Central	252,529	229,623	226,936	215,693	204,026
West Central	339,670	377,817	427,159	398,063	318,878
East Central	494,388	302,174	470,590	397,270	421,262
South	304,103	398,516	405,494	526,715	550,475
Qu'Appelle	309,438	266,230	435,894	363,620	260,663
Totals	1,778,376	1,617,627	2,007,998	1,946,353	1,789,298
Non-resident					
North	29,038	25,739	32,162	41,893	66,672
North Central	146,948	136,056	102,097	102,193	75,208
West Central	42,530	67,815	58,226	64,082	70,625
East Central	30,796	34,335	55,231	41,084	24,830
South	29,918	48,278	43,130	27,232	32,077
Qu'Appelle	14,079	16,193	18,837	11,411	5,765
Totals	293,309	328,416	309,683	287,895	275,177
All Anglers					
North	107,286	69,006	74,087	86,885	100,666
North Central	399,477	365,679	329,033	317,886	279,234
West Central	382,200	445,632	485,385	462,145	389,504
East Central	525,184	336,509	525,821	438,354	446,092
South	334,021	446,794	448,624	553,947	582,552
Qu'Appelle	323,517	282,423	454,731	375,031	266,428
Totals	2,071,685	1,946,043	2,317,681	2,234,248	2,064,476

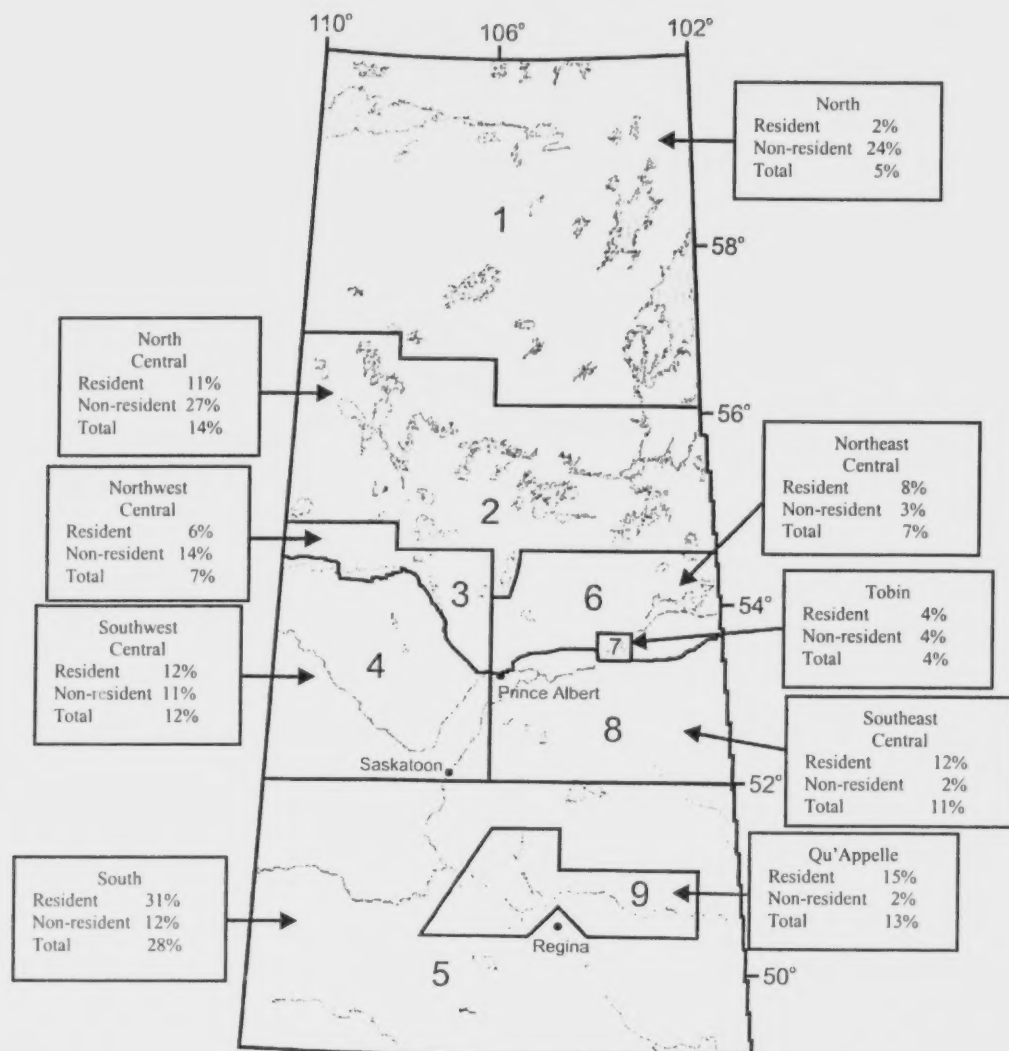


Figure 4. Percentage of angler-days expended by anglers in each fishing area of Saskatchewan in 2000.

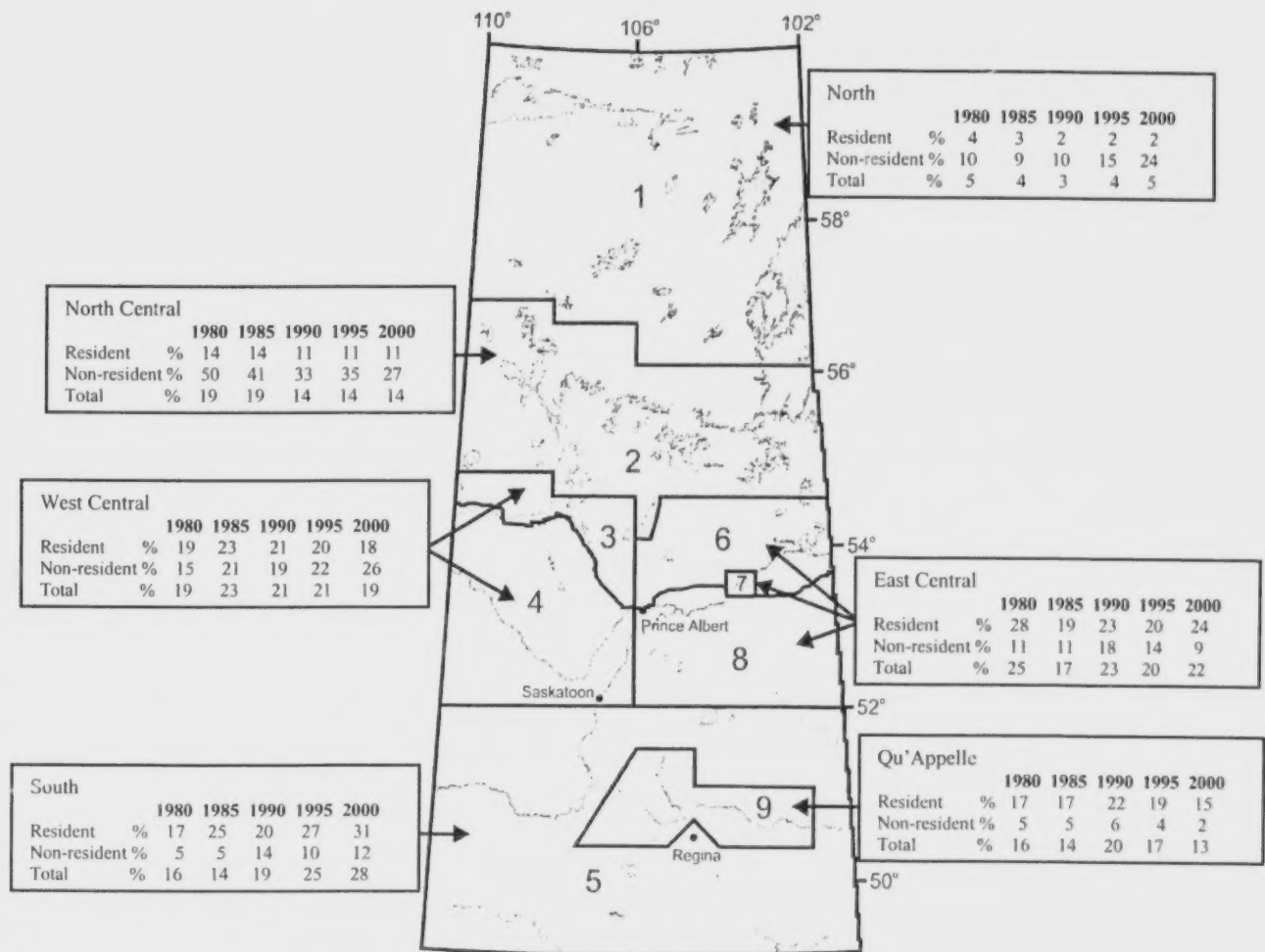


Figure 5. Percentage of angler days expended by anglers in the major fishing areas of Saskatchewan, 1980-2000.

Table 18. Average number of angler-days per angler, Saskatchewan, 1980-2000.

Year	Resident			Non-Resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
1980	...	...	13.3	6.1	6.3	6.2	11.4
1985	11.8	11.3	11.8	7.8	7.9	7.8	10.8
1990	15.3	13.4	15.0	9.2	6.8	8.1	13.5
1995	14.8	13.5	14.6	7.3	5.8	6.5	12.6
2000	...	...	13.8	7.6	5.5	6.6	12.0

Table 19. Number and proportion of angler-days spent ice fishing, Saskatchewan 2000.

	Resident			Non-Resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
Total angler days	1,629,880	159,419	1,789,298	162,059	113,118	275,177	2,064,476
Through the ice	295,105	28,258	323,362	9,121	1,860	10,981	334,344
	%	%	%	%	%	%	%
Proportion of total spent ice fishing	18	18	18	6	2	4	16

Table 20. Ranking of waterbody in terms of number of respondents who fished there, Saskatchewan, 2000.

Rank	Waterbody	No. of Respondents	Rank	Waterbody	No. of Respondents
1	Diefenbaker	386	13	Echo (50°48' 103°51')	67
2	Last Mountain	153	14	Cowan	65
3	Tobin	142	15	Reid (50°01' 108°09')	64
4	Rafferty	109	16	Wollaston	62
5	Blackstrap	106	16	North Sask. River	62
6	Jan	93	18	Green (54° 10' 107° 43')	60
7	Candle	90	19	Reindeer	54
8	Saskatchewan River	89	19	Waterhen	54
9	Lac des Isle	87	20	Fishing (51° 50' 103° 32')	53
10	Canoe	77	21	Deschambault	52
10	Lac la Ronge	77	22	Amisk	50
11	Turtle	73	23	Chitek	49
12	Churchill River	70	23	Nemeiben	49

Table 21. Estimated total number of anglers who fished each lake in 2000.

Rank	Waterbody	Estimated number of anglers	Rank	Waterbody	Estimated number of anglers
1	Diefenbaker	28,877	14	Reid (50°01' 108°09')	4,277
2	Last Mountain	12,239	15	Lac des Isle	4,004
3	Blackstrap	9,076	16	Deschambault	3,975
4	Tobin	8,914	17	Churchill River	3,962
5	Candle	7,292	18	Canoe	3,945
6	Saskatchewan River	6,615	19	Fishing (51° 50' 103° 32')	3,855
7	Rafferty	6,172	20	Nemeiben	3,618
8	Jan	5,765	21	Green (54° 10' 107° 43')	3,331
9	Echo (50°48' 103°51')	5,339	22	Chitek	3,310
10	Cowan	5,263	23	Waterhen	2,933
11	Lac la Ronge	5,013	24	Wollaston	2,377
12	North Sask. River	4,960	25	Amisk	2,337
13	Turtle	4,600	26	Reindeer	2,034

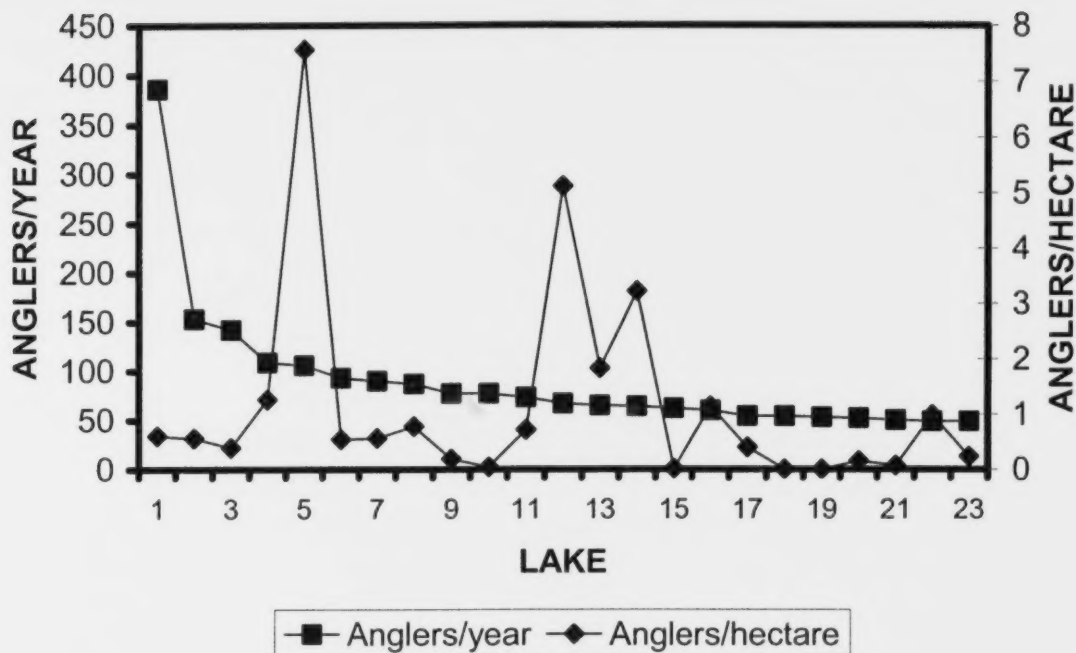


Figure 6. Estimated number of anglers per year and anglers per hectare for the most popular fishing destinations in Saskatchewan, 2000 (rivers excluded).

Angler Harvest

All Species

In 2000, anglers caught approximately 11.4 million fish (Table 22), of which they kept 3.4 million (Table 23) for a total weight of 2.7 million kilograms (Table 24; Appendix B, Tables B15-B21). Approximately 65% of the total fish harvest by number came from the Southern management zone (Table 25), with the major species accounting for 92% of all harvest. The actual harvest of fish in Saskatchewan is higher than the reported 3.4 million fish as the harvest figure does not account for anglers under 16 years of age. This age group accounts for 27.3% of the angling population, however, it is not known if their harvest is in proportion to their numbers relative to adult anglers.

The average weights of fish retained by anglers in 2000 remained relatively constant with previous years (Table 26). The only difference of note is a slight increase in stocked species for both residents and non-residents.

The numbers of fish caught in Saskatchewan in 2000 increased by 12.8% compared to 1995, while the number of fish harvested (kept) decreased by 11.2% (Table 27). Resident anglers caught 8% more fish than in 1995, but harvested 9% fewer while non-residents caught 27% more fish and kept 26% less than in 1995.

Similar to the previous survey in 1995, there were more anglers practicing catch and release, resulting in lower harvests of fish. In 2000, anglers kept 30% of all fish they caught (Table 28). As a whole, non-resident anglers kept fewer fish than resident anglers, 13% and 36% of their catches, respectively. Canadian non-residents (23%) kept more fish than non-Canadian non-residents (9%) in 2000. Anglers kept more of the stocked species they caught (54%) than the major native species (30%). The trend seen in the previous survey of anglers keeping less fish is also seen in this survey (Table 29). Anglers kept 68% of catches in 1980 but only 30% in 2000, a trend that is seen in major, stocked, and other species categories.

Table 22. Numbers of fish caught by active adult anglers in Saskatchewan, 2000.

Species	Resident	Non-Resident			Total
		Canadian	Other	Total	
Major Species					
Pike	2,536,559	439,982	1,200,487	1,640,469	4,177,028
Walleye	2,635,086	274,039	560,409	834,448	3,469,534
Perch	2,390,472	128,489	54,702	183,191	2,573,663
Lake Trout	157,800	101,765	179,625	281,390	439,190
Totals	7,719,917	944,275	1,995,223	2,939,498	10,659,415
Stocked Species					
Rainbow Trout	348,889	13,283	15,628	28,911	377,800
Brook Trout	12,277	504	166	670	12,947
Brown Trout	2,034	220	33	253	2,288
Splake	10,024	1,826	...	1,826	11,850
Totals	373,224	15,833	15,827	31,661	404,885
Other Species					
Whitefish	59,159	4,629	3,445	8,073	67,232
Goldeye	72,707	7,912	1,585	9,497	82,204
Grayling	4,471	1,322	33,082	34,404	38,875
Sturgeon	3,867	327	...	327	4,193
Others*	97,445	3,180	3,899	7,079	104,525
Totals	237,649	17,370	42,011	59,381	297,030
All Species	8,330,790	977,478	2,053,061	3,030,540	11,361,330

*Others are burbot and fish not identified by respondents

Table 23. Numbers of fish kept by active adult anglers in Saskatchewan, 2000.

Species	Resident	Non-Resident			Total
		Canadian	Other	Total	
Major Species					
Pike	786,875	74,481	61,527	136,008	922,883
Walleye	911,004	80,252	89,384	169,636	1,080,640
Perch	1,041,162	46,808	14,592	61,400	1,102,562
Lake Trout	31,582	9,254	12,721	21,975	53,557
Totals	2,770,623	210,795	178,224	389,019	3,159,642
Stocked Species					
Rainbow Trout	193,571	6,222	970	7,192	200,763
Brook Trout	7,792	31	66	97	7,889
Brown Trout	1,582	0	0	0	1,582
Splake	7,089	1,416	0	1,416	8,505
Totals	210,034	7,669	1,036	8,705	218,739
Other Species					
Whitefish	16,999	2,392	332	2,724	19,723
Goldeye	8,595	427	123	550	9,145
Grayling	603	0	432	432	1,035
Sturgeon	0	0	0	0	0
Others*	27,541	283	281	564	28,105
Totals	53,738	3,102	1,168	4,270	58,008
All Species	3,034,395	221,566	180,428	401,994	3,436,389

*Others are burbot and fish not identified by respondents

Table 24. Estimated weight of fish kept by active anglers in Saskatchewan, 2000.

Species	Resident	Non-Resident			Total
		Canadian	Other	Total	
Major Species					
Pike	921,599	93,729	83,978	177,707	1,099,305
Walleye	814,073	73,823	82,550	156,373	970,446
Perch	229,055	10,298	3,210	13,508	242,563
Lake Trout	62,215	18,228	25,060	43,289	105,503
Totals	2,026,941	196,078	194,799	390,876	2,417,817
Stocked Species					
Rainbow Trout	230,349	7,405	1,155	8,561	238,910
Brook Trout	3,663	15	31	46	3,708
Brown Trout	838	0	0	0	838
Splake	8,365	1,671	0	1,671	10,036
Totals	243,216	9,091	1,187	10,277	253,493
Other Species					
Whitefish		2,176	302	2,478	17,946
Goldeye	15,468	145	42	187	3,109
Grayling	2,922	0	238	238	569
Sturgeon	332	0	0	0	0
Others*	0	132	132	264	13,208
	12,945				
Totals		2,453	713	3,166	34,833
	31,667				
All Species	2,301,824	207,622	196,698	404,320	2,706,144

*Others are burbot and fish not identified by respondents

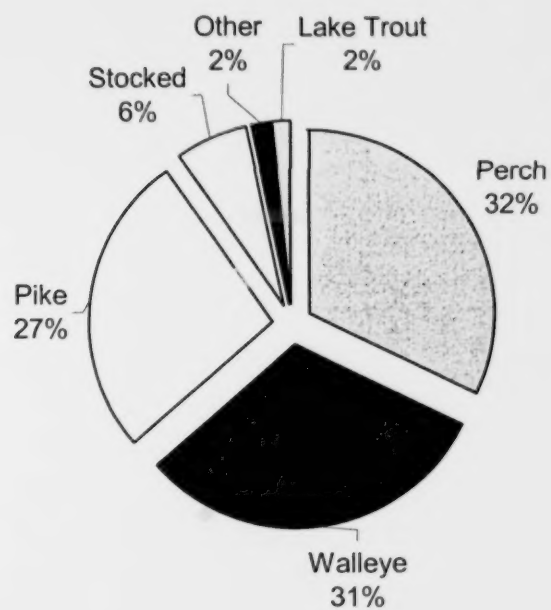


Figure 7. Composition of recreational harvest, Saskatchewan, 2000.

Table 25. Numbers of fish harvested in each fisheries management zone by active anglers in Saskatchewan, 2000.

Angler type	Species	Northern	Central	Southern	Total
Resident	Major ^a	49,926	831,594	1,889,103	2,770,623
	Stocked ^b	1,287	25,838	182,909	210,034
	Other ^c	0	6,671	47,067	53,738
	Totals	51,213	864,103	2,119,079	3,034,395
Non-Resident	Major	68,862	201,573	118,583	389,018
	Stocked	650	1,933	6,122	8,705
	Other	848	985	2,434	4,267
	Totals	70,360	204,491	127,139	401,990
All Anglers	Major	118,790	1,033,167	2,007,685	3,159,642
	Stocked	1,938	27,772	189,032	218,742
	Other	848	7,658	49,503	58,009
	Totals	121,576	1,068,597	2,246,220	3,436,393

^a Major species include pike, walleye, perch, and lake trout^b Stocked species include rainbow, brook, and brown trout, and splake^c Other species include whitefish, goldeye, grayling, burbot, and fish not identified by respondents

Table 26. Average weights of fish kept by active anglers in Saskatchewan, 1980-2000.

	Resident			Non-resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
	kg	kg	kg	kg	kg	kg	kg
Major ^a species							
1980	...	...	0.8	1.1	1.3	1.2	0.9
1985	0.8	0.9	0.8	1.0	1.2	1.1	0.9
1990	0.7	0.8	0.7	0.9	1.2	1.1	0.8
1995	0.7	0.9	0.7	0.9	1.1	1.0	0.8
2000			0.7	0.9	1.1	1.0	0.8
Stocked ^b species							
1980	...	...	0.7	1.0	1.2	1.0	0.7
1985	1.1	1.0	1.1	0.9	1.1	1.0	1.1
1990	1.1	1.2	1.1	1.1	0.8	1.1	1.1
1995	1.1	1.1	1.1	1.1	0.8	1.1	1.1
2000			1.2	1.2	1.1	1.2	1.2
Other ^c species							
1980	...	...	0.4	0.5	0.5	0.5	0.4
1985	0.6	0.5	0.6	0.7	0.5	0.6	0.6
1990	0.8	0.6	0.8	0.6	0.6	0.6	0.7
1995	0.6	0.7	0.6	0.6	0.5	0.6	0.6
2000			0.6	0.8	0.6	0.7	0.6
All species							
1980	...	...	0.8	1.1	1.3	1.2	0.9
1985	0.8	0.9	0.8	1.0	1.2	1.1	0.9
1990	0.8	0.8	0.8	0.9	1.2	1.0	0.8
1995	0.7	0.9	0.7	0.9	1.1	1.0	0.8
2000			0.8	0.9	1.1	1.0	0.8

^a Major species include pike, walleye, perch and lake trout;

^b Stocked species include rainbow, brook, and brown trout, and splake;

^c Other species include whitefish, goldeye, grayling, burbot, and fish not identified by respondents.

Table 27. Numbers of fish caught and kept by anglers in Saskatchewan, 1980-2000.

	Caught			Kept		
	Resident	Non-resident	Total	Resident	Non-resident	Total
Pike						
1980	2,260,983	1,036,758	3,297,741	1,533,851	389,039	1,922,890
1985	2,418,844	1,130,154	3,548,998	1,473,656	262,032	1,735,688
1990	2,772,124	1,075,123	3,847,247	1,125,609	215,839	1,341,448
1995	2,310,453	1,130,459	3,440,912	877,877	176,649	1,054,526
2000	2,536,559	2,939,498	4,177,028	786,875	136,008	922,883
Walleye						
1980	1,439,080	718,643	2,157,723	1,158,302	446,612	1,602,914
1985	1,661,266	752,873	2,414,139	1,227,542	337,159	1,564,701
1990	2,566,366	860,118	3,426,484	1,280,045	326,961	1,607,006
1995	2,303,600	874,222	3,177,822	974,545	248,554	1,223,099
2000	2,635,086	834,448	3,469,534	911,004	169,636	1,080,640
Perch						
1980	1,801,439	258,302	2,059,741	1,472,158	162,315	1,634,473
1985	1,489,609	108,907	1,598,516	995,838	74,344	1,070,182
1990	2,423,886	147,359	2,571,245	1,410,403	83,204	1,493,607
1995	2,461,922	169,740	2,631,662	1,269,461	75,140	1,344,601
2000	2,390,472	183,191	2,573,663	1,041,162	61,400	1,102,562
Lake Trout						
1980	119,593	102,836	222,429	93,447	51,272	144,719
1985	193,852	134,427	328,279	108,732	58,396	167,128
1990	175,592	138,273	313,865	83,861	34,337	118,198
1995	97,020	138,539	235,559	32,470	29,018	61,488
2000	157,800	281,390	439,190	31,582	21,975	53,557
Major species^a						
1980	5,621,095	2,116,539	7,737,634	4,257,758	1,049,238	5,304,996
1985	5,763,571	2,126,361	7,889,932	3,805,768	731,931	4,537,699
1990	7,937,968	2,220,873	10,158,841	3,899,918	660,341	4,560,259
1995	7,172,995	2,312,960	9,485,955	3,154,353	529,361	3,683,714
2000	7,719,917	2,939,498	10,659,415	2,770,623	389,019	3,159,642
Stocked species^b						
1980	132,932	34,744	151,010	90,854	16,156	107,010
1985	124,744	10,951	135,695	104,575	7,634	112,209
1990	171,679	39,207	210,886	106,853	17,960	124,813
1995	179,046	17,471	196,517	88,469	4,096	92,565
2000	373,224	31,661	404,885	210,034	8,705	218,739
All species						
1980	5,865,346	2,181,405	8,046,751	4,432,326	1,072,956	5,505,282
1985	6,046,618	2,160,305	8,206,923	4,018,099	749,860	4,767,959
1990	8,452,197	2,323,041	10,775,238	4,131,393	691,664	4,823,057
1995	7,688,425	2,380,456	10,068,881	3,330,003	540,313	3,870,316
2000	8,330,790	3,030,540	11,361,330	3,034,395	401,994	3,436,389

^a Major species include pike, walleye, perch, and lake trout^b Stocked species include rainbow, brook, and brown trout, and splake

Table 28. Proportion of fish kept by active adult anglers in Saskatchewan, 2000.

	Resident	Non-Resident			Total
		Canadian	Other	Total	
	%	%	%	%	%
Major Species					
Pike	31	17	5	8	22
Walleye	35	29	16	20	31
Perch	44	36	27	34	43
Lake Trout	20	9	7	8	12
Totals	36	22	9	13	30
Stocked Species					
Rainbow Trout	55	47	6	25	53
Brook Trout	63	6	40	14	61
Brown Trout	78	0	0	0	69
Splake	71	78	0	78	72
Totals	56	48	7	27	54
Other Species					
Whitefish	29	52	10	34	29
Goldeye	12	5	8	6	11
Grayling	13	0	1	1	3
Sturgeon	0	0	0	0	0
Other ^a	28	9	7	8	27
Totals	23	18	3	7	20
All Species	36	23	9	13	30

^a Others are burbot and fish not identified by respondents.

Table 29. Proportion of fish kept by active anglers in Saskatchewan, 1980-2000.

	Resident			Non-resident			Total
	Licenced	Senior	Total	Canadian	Other	Total	
	%	%	%	%	%	%	%
Major Species^a							
1980	...	...	76	58	44	49	68
1985	65	81	66	55	26	34	58
1990	47	73	49	37	24	30	45
1995	43	55	44	35	17	23	39
2000	36		36	22	9	13	30
Stocked Species^b							
1980	...	...	68	44	100	46	71
1985	84	89	84	71	64	70	83
1990	62	76	62	49	16	46	59
1995	47	77	49	23	35	23	47
2000	56		56	48	7	27	54
Other Species^c							
1980	...	...	...	18	23	20	59
1985	67	85	67	87	18	45	65
1990	37	29	37	28	12	21	34
1995	24	46	24	20	9	13	24
2000	23		23	18	3	7	20
All Species							
1980	...	...	...	57	44	49	68
1985	66	81	66	56	26	35	58
1990	47	72	47	37	24	30	45
1995	42	56	42	37	17	23	38
2000	36		36	23	9	13	30

^a Major species include pike, walleye, perch, and lake trout^b Stocked species include rainbow, brook, and brown trout and splake^c Other species include whitefish, goldeye, grayling, burbot, and fish not identified by respondents

Table 30. Average number of fish kept per angler-day in Saskatchewan in 2000.

Species	Resident	Non-resident			Total
		Canadian	Other	Total	
Major Species					
Pike	0.44	0.46	0.54	0.49	0.45
Walleye	0.51	0.50	0.79	0.62	0.52
Perch	0.58	0.29	0.13	0.22	0.53
Lake Trout	0.02	0.06	0.11	0.08	0.03
Totals	1.55	1.30	1.58	1.41	1.53
Stocked Species ^a					
Rainbow Trout	0.11	0.04	+	0.03	0.10
Brook Trout	+	+	+	+	+
Brown Trout	+	0	0	0	0
Splake	+	0.01	0	+	+
Totals	0.12	0.05	0.01	0.03	0.11
Other Species					
Whitefish	0.01	0.02	+	0.01	0.01
Goldeye	+	+	+	+	+
Grayling	+	0	+	+	+
Sturgeon	0	0	0	0	0
Others ^b	0.02	+	+	+	0.01
Totals	0.03	0.02	0.01	0.02	0.03
All Species	1.70	1.37	1.59	1.46	1.66

^a Symbol + represents less than 0.01 fish kept per angler day^b Others include burbot and fish not identified by respondents

In 2000, 90% of the total harvest was comprised of perch, walleye, and pike, in that order (Figure 7). Perch had the highest total harvest with 32% of the total. Over 74% of the total harvest came from four fishing areas, South, North Central, Qu'Appelle and Southwest Central, respectively (Appendix B, Table B14). Harvests in the South area were highest at 1,026,662 fish, nearly twice the amount from the North Central area (576,125 fish).

The harvest distribution of the four major species did not necessarily follow that of the total harvest mentioned previously. Almost 45% of the total pike harvest was from the Southwest Central (23%) and North Central (21%) areas; 52% of the walleye was harvested from the South (27%) and North Central (25%) areas; 65% of perch was from the South (38%) and Qu'Appelle (27%) areas (Appendix B, Table B14). Similar to the 1995 survey, lake trout was the only species to diverge from this pattern with 46% of harvest coming from the North survey area.

The average number of fish kept per angler-day for all species in 2000 was 1.66 fish (Table 30). Anglers kept 1.53 fish/angler-day of the major species, 0.11 fish/angler-day of the stocked species, and 0.03 fish/angler-day of the other species. Saskatchewan residents kept the most perch per angler-day of all anglers, keeping 0.58 fish, while non-residents kept the most walleye per angler-day at 0.62. Northern pike harvests were roughly equal between residents (0.44 fish) and non-residents (0.49 fish) per angler day. As seen in the previous survey, all anglers kept fewer fish per angler-day than previous (Table 31).

Each individual angler kept 20.0 fish of all species in 2000 (Table 32). The average number of fish kept by individual angler of the major species was 18.4 fish, with stocked species harvest being 1.4 and others being 0.4 fish per angler. Overall, Saskatchewan residents with 23.3 fish more than doubled the average harvest of non-residents of 9.6 fish. Compared to the 1995 survey, fewer fish were kept by each individual angler of all the species (with the exception of stocked trout), similar to results seen in 1995 compared to 1990 (Table 33).

Anglers fishing in the Qu'Appelle area kept the most fish with an average of 20.40 fish per angler while the lowest average were found in the Northwest Central (4.64 fish) and Tobin Lake (5.87 fish) areas. The largest average harvest per angler-day of the major species was 0.85 pike in both the Northwest and Southwest Central areas; 0.96 walleye in the North Central area; 1.12 perch in the Qu'Appelle area; and 0.24 lake trout in the North area (Appendix B, Tables B22-B31).

Table 31. Average numbers of fish kept per angler-day in Saskatchewan, 1980-2000.

Species	Year	Resident	Non-resident	Total
Pike	1980	0.86	1.33	0.93
	1985	0.95	0.82	0.93
	1990	0.59	0.75	0.61
	1995	0.45	0.61	0.47
	2000	0.44	0.49	0.45
Walleye	1980	0.65	1.52	0.77
	1985	0.79	1.06	0.84
	1990	0.67	1.14	0.73
	1995	0.50	0.86	0.55
	2000	0.51	0.62	0.52
Perch	1980	0.83	0.55	0.79
	1985	0.64	0.23	0.57
	1990	0.74	0.29	0.68
	1995	0.65	0.26	0.60
	2000	0.58	0.22	0.53
Lake trout	1980	0.05	0.17	0.07
	1985	0.07	0.18	0.09
	1990	0.04	0.12	0.05
	1995	0.02	0.10	0.03
	2000	0.02	0.08	0.03
Stocked trout ^a	1980	0.05	0.06	0.05
	1985	1.67	0.78	1.54
	1990	1.14	0.81	1.08
	1995	0.05	0.01	0.04
	2000	0.12	0.03	0.11
Other species ^b	1980	0.04	0.02	0.04
	1985	0.07	0.03	0.06
	1990	0.07	0.04	0.06
	1995	0.06	0.02	0.04
	2000	0.03	0.02	0.03
All species	1980	2.48	3.66	2.65
	1985	2.48	2.28	2.45
	1990	2.06	2.23	2.08
	1995	1.71	1.88	1.73
	2000	1.70	1.46	1.66

^a Stocked trout include rainbow, brook and brown trout, and splake^b Other species include whitefish, goldeye, grayling, burbot, and fish not identified by respondents

Stocked Species

Saskatchewan supports an active and successful program aimed at establishing and maintaining stocks of non-native trout in over 130 lakes and streams. In 2000, anglers who targeted stocked trout species harvested 218,739 rainbow, brook and brown trout and splake (Table 22; Appendix B, Tables B8-B14). The most preferred species was rainbow trout which comprised 92% of the total stocked trout harvest. Compared to 1995 the number of fish harvested is higher by 236%. The average number of stocked trout harvested in 2000 was 1.3 fish per angler (Tables 32 & 33).

Approximately 79% of the stocked trout harvest came from the South survey area (Appendix B, Table B14), unlike the 1995 survey which showed that 66% of the harvest came from the Southwest Central and South areas.

Sturgeon

Anglers caught an estimated 4,193 sturgeon in 2000 (Table 22), and did not keep any of them due to restrictions on sturgeon harvest (Table 23). Most of the effort expended on sturgeon occurred in the Southeast Central and Tobin Lake areas (Appendix B, Table B7).

Table 32. Average number of fish kept by individual active adult anglers in Saskatchewan in 2000.

Species	Resident	Non-resident		Total	Total
		Canadian	Other		
Major Species					
Pike	6.1	3.5	3.0	3.2	5.4
Walleye	7.0	3.8	4.3	4.0	6.3
Perch	8.0	2.2	0.7	1.5	6.4
Lake trout	0.2	0.4	0.6	0.5	0.3
Totals	21.3	9.9	8.7	9.3	18.4
Stocked Species					
Rainbow trout	1.5	0.3	<0.1	0.2	1.2
Brook trout	0.1	<0.1	<0.1	<0.1	<0.1
Brown trout	<0.1	0	0	0	<0.1
Splake	<0.1	0.1	0	<0.1	<0.1
Totals	1.6	0.4	<0.1	0.2	1.3
Other Species					
Whitefish	0.1	0.1	<0.1	0.1	0.1
Goldeye	0.1	<0.1	<0.1	<0.1	<0.1
Grayling	<0.1	0	<0.1	<0.1	<0.1
Sturgeon	0	0	0	0	0
Others*	0.2	<0.1	<0.1	<0.1	0.2
Totals	0.4	0.1	<0.1	0.1	0.3
All Species	23.3	10.4	8.8	9.6	20.0

* Others are burbot and fish not identified by respondents

^a The values in this table are greater than those in Appendix B, Table B31. The differences are due to the divisors used in the computations. In the table above, the divisors were the number of individual fishermen (Table 7, row 11). In Appendix B, Tables B15-B24, the divisors were the number of anglers (Table 7, rows 1-10). It was not possible to utilize the former in the detailed computations because many individual fishermen fished in more than one area.

Table 33. Average numbers of fish kept per individual active adult angler in Saskatchewan, 1980-2000.

Species	Year	Resident	Non-resident	Total
Pike	1980	11.5	8.2	10.6
	1985	10.7	6.2	9.7
	1990	8.4	5.6	7.8
	1995	6.6	4.0	6.0
	2000	6.1	3.2	5.4
Walleye	1980	8.7	9.4	8.8
	1985	8.9	8.0	8.7
	1990	9.6	8.5	9.4
	1995	7.3	5.7	6.9
	2000	7.0	4.0	6.3
Perch	1980	11.0	3.4	9.0
	1985	7.2	1.8	6.0
	1990	10.6	2.2	8.7
	1995	9.5	1.7	7.6
	2000	8.0	1.5	6.4
Lake trout	1980	0.7	1.1	0.8
	1985	0.8	1.4	0.9
	1990	0.6	0.9	0.7
	1995	0.2	0.7	0.3
	2000	0.2	0.5	0.3
Stocked trout ^a	1980	6.7	5.5	6.6
	1985	6.7	3.8	6.4
	1990	0.8	0.5	0.7
	1995	0.7	0.1	0.5
	2000	1.6	0.2	1.3
Other species ^b	1980	0.6	0.1	0.5
	1985	0.8	0.2	0.8
	1990	0.9	0.3	0.7
	1995	0.7	0.2	0.3
	2000	0.4	0.1	0.3
All species	1980	33.3	22.6	30.4
	1985	29.2	17.9	26.6
	1990	30.9	18.0	28.0
	1995	25.0	12.3	21.9
	2000	23.3	9.6	20.0

^a Stocked trout include rainbow, brook and brown trout, and splake^b Other species include whitefish, goldeye, grayling, burbot, and fish not identified by respondents

Angler Expenditures and Investments

Expenditures

Anglers spent approximately \$108,167,298 on purchases directly attributable to sport fishing (Table 34). Approximately 28% of this total is made up by food and lodging with transportation comprising 21% of the total. Saskatchewan residents spent the most on food and lodging at 33% of their total and 28% on transportation. When combined with packages, these three make up 67% of their total expenditures. On the other hand, non-residents spent 23% on food and lodging and 14% on transportation but when packages are added, this accounts for 87% of the total dollars they spent.

Saskatchewan residents accounted for approximately 53% of the total dollars spent (\$57,158,187). Of the remaining 47%, US residents accounted for 73% of the dollars spent. US residents also spent the highest amount per angler at \$1,807, compared to \$439 for Saskatchewan residents.

Comparing the overall average of \$629 per angler, there is an increase of almost 17% compared to 1995 (\$539 per angler); 25% compared to 1990 (\$505); 60% compared to 1985 (\$394); and 272% compared with 1980 (\$231) (Table 35).

Expenditures per angler-day made in Saskatchewan in 2000 varied from a high of \$328.63 for U.S. residents to a low of \$31.94 for resident anglers (Table 36). The overall 2000 average was \$52.39 which is 23% higher than that in 1995. The greatest increase seen was 87% by U.S. anglers.

The cost per fish kept was \$18.84 for resident anglers, while non-residents paid \$126.89 per fish kept (Table 37). The cost per fish kept for all anglers has consistently been rising since 1980 from \$7.61 in that year. The largest increases are seen in costs for non-residents of Saskatchewan. The cost per kilogram of fish kept for non-residents is more than five times that of Saskatchewan residents, likely due to the higher amount of catch and release fishing practiced by non-residents.

Investments

Major purchases and investments made in Saskatchewan relating in whole or in part to sport fishing totaled \$146,831,714 in 2000, which averages out to \$854 per anglers (Table 38). Residents spent \$134,392,404 or 92% of the total purchases. In

Table 34. Expenditures directly attributable to sport fishing by total licenced adult anglers in Saskatchewan, 2000.

Expenditure	Resident	Non-resident			Total
		Canadian	Other	Total	
	\$	\$	\$	\$	\$
Food and lodging	19,053,223	5,911,479	5,712,014	11,623,493	30,676,716
Transportation	15,980,034	3,255,308	3,902,594	7,157,902	23,137,936
Household boat costs	8,447,520	968,483	381,886	1,350,369	9,797,889
Fishing services ^a	5,444,227	1,394,812	2,299,267	3,694,079	9,138,306
Fishing supplies	5,170,601	687,361	900,517	1,587,878	6,758,479
Other expenditures	77,952	30,311	167,831	198,142	276,094
Totals	54,173,557	12,247,754	13,364,109	25,611,863	79,785,420
Packages ^b	2,984,629	1,587,142	23,810,108	25,397,250	28,381,879
Totals	57,158,187	13,834,895	37,174,216	51,009,111	108,167,298
Average per active angler	439	648	1,807	1,228	629

^a Fishing services include boat rentals, guide costs, licence fees and access fees

^b Packages include fly-in lodge, charter boat, etc., costs.

comparison, non-resident Canadians accounted for 6% of the total investments and U.S. residents invested 2% of the total purchases.

Similar to previous surveys, special vehicles received the largest amount of investment and totaled 34% or \$45,046,237 of the total purchases made by Saskatchewan residents (Table 38). Non-residents spent \$8,091,973 on land and buildings which accounts for 65% of the non-resident total purchases. Licenced Saskatchewan residents invested the most at \$1,033 per angler whereas U.S. residents invested the least at \$173 per angler.

Of the \$146,831,714 total investments made, 50% or \$72,944,840 was wholly attributable to sport fishing with an average of \$424 per angler (Table 39). Licenced Saskatchewan residents invested 89% of the total \$72,944,840 averaging \$498 per angler (Table 39). In comparison, U.S. residents invested the least at 4% of the total investment averaging \$138 per angler. Major purchases and investments wholly attributable to sport

Table 35. Expenditures directly related to sport fishing in Saskatchewan, 1980-2000.

Expenditure	1980	1985	1990 ^a	1995	2000
	\$	\$	\$	\$	\$
Food and lodging	14,117,908	25,631,712	30,285,930	32,556,714	30,676,716
Transportation ^b	13,453,907	25,126,112	35,762,231	33,432,917	32,935,825
Fishing services ^c	3,484,718	4,162,753	4,823,141	6,657,733	9,138,306
Fishing supplies	4,116,136	3,669,763	5,704,118	6,634,395	6,758,479
Packages ^d	5,369,652	11,631,121	9,268,348	14,755,686	28,381,879
Other expenditures	1,338,820	483,852	873,213	1,355,702	276,094
Totals	41,881,141	70,705,313	86,716,981	95,393,147	108,167,298
Average per active angler	231	394	505	539	629

^a 1990 values have been adjusted since the printing of the 1990 report. The values shown here are the revised values.

^b Transportation includes household boats

^c Fishing services include boat rentals, guide costs, licence fees and access fees

^d Packages include fly0in, lodge, charter boat, etc., costs

fishing showed that Saskatchewan residents spent the most on boats at \$28,727,100 or 44% of their total purchases made in Saskatchewan in 2000. Non-residents from both Canada and the U.S. invested the most in land and buildings accounting for 64% of their total investment. Overall, boats accounted for 40% of all investments, with land and buildings being second at 19% of the total value of major purchases and investments in 2000.

Major purchases and investments decreased by 18% to \$146, 831,714 in 2000 from \$177,983,362 in 1995 (Table 40). Decreases were seen in all categories of major purchases and investments since the previous survey. The total expenditures in 2000 was the second lowest in the surveys, next to 1980. Boats and other investments remained relatively stable, being 97% of the 1995 expenditures. The largest decrease in spending was seen in camping equipment and special vehicles, 70% and 75% respectively. The average expenditure per angler decreased by \$112 to a level slightly higher than that seen in 1985 (Table 40).

Major purchases and investments are not always used solely for recreational angling purposes (e.g. boats may be used for activities other than angling). Anglers were asked to estimate the proportion of their major purchases and investments that were solely for fishing. Of the total amount spent, approximately 50%, or \$72,944,840 was wholly attributable to sport fishing (Table 41). This is a slight increase from the 1995 survey to levels seen in 1990. U.S. residents spent the highest proportion on sport fishing at 80%, while residents spent the least at 48%.

Table 36. Expenditures per angler-day in Saskatchewan, 1980-2000.

Expenditure	Resident			Non-Resident			Total
	Licensed	Senior	Total	Canadian	Other	Total	
1980							
Total expenditures, \$	...	...	27,539,132	4,543,249	9,798,760	14,342,009	41,881,141
Number of angler-days	...	...	1,778,376	172,577	120,732	293,309	2,071,685
Average daily cost \$/angler-day	...	...	15.48	26.32	81.16	48.90	20.22
1985							
Total expenditures, \$	46,825,640	2,925,891	49,751,531	6,913,839	14,039,943	20,953,782	70,705,313
Number of angler-days	1,481,569	136,058	1,617,548	180,548	147,868	328,416	1,946,043
Average daily cost \$/angler-day	31.60	21.50	30.75	38.29	94.95	63.80	36.33
1990							
Total expenditures, \$	59,264,625	6,349,848	65,614,473	7,615,715	13,486,793	21,102,508	86,716,981
Number of angler-days	1,783,408	224,590	2,007,998	185,930	123,753	309,683	2,317,681
Average daily cost \$/angler-day	33.23	28.27	32.68	40.96	108.98	68.14	37.42
1995							
Total expenditures, \$	57,703,876	5,225,556	62,929,432	9,905,690	22,558,025	32,463,715	95,393,147
Number of angler-days	1,756,323	190,029	1,946,352	159,755	128,143	287,898	2,234,250
Average daily cost \$/angler-day	32.85	27.5	32.33	62.01	176.04	112.76	42.70
2000							
Total expenditures, \$	...	...	57,158,187	13,834,895	37,174,216	51,009,111	108,167,298
Number of angler-days	...	...	1,789,298	162,059	113,118	275,177	2,064,475
Average daily cost \$/angler-day	...	...	31.94	85.37	328.63	185.37	52.39

Table 37. Expenditures per fish and per kilogram of fish caught and kept by anglers in Saskatchewan, 1980-2000.

Angler	Year	Cost/fish \$	Cost/kilogram \$
Resident	1980	6.21	6.55
	1985	12.38	14.57
	1990	15.88	20.98
	1995	18.90	24.53
	2000	18.84	24.83
Non-resident	1980	13.37	11.12
	1985	27.94	25.78
	1990	30.54	29.09
	1995	60.08	59.17
	2000	126.89	126.16
All Anglers	1980	7.61	8.42
	1985	14.83	16.73
	1990	17.98	22.51
	1995	24.65	30.64
	2000	31.48	29.97

Table 38. Major purchases and investments relating in part or in whole to sport fishing in Saskatchewan in 2000.

Purchase	Resident	Non-Resident		Total	Total
		Canadian	Other		
	\$	\$	\$	\$	\$
Fishing equipment	5,871,102	325,824	177,929	503,753	6,374,855
Boats	36,130,442	239,659	40,721	280,380	36,410,822
Camping equipment	15,884,732	1,378,453	49,669	1,428,122	17,312,854
Special vehicles	45,046,237	1,518,227	342,941	1,861,168	46,907,405
Land and buildings	28,520,374	5,276,693	2,815,280	8,091,973	36,612,347
Other investments	2,939,518	132,784	141,129	273,913	3,213,431
Totals	134,392,404	8,871,640	3,567,670	12,439,310	146,831,714
Average per angler (total population)	1,033	416	173	295	854
Totals attributable to sport fishing	64,725,217	5,368,582	2,851,042	8,219,624	72,944,840
Average per angler (total population)	498	252	139	195	424

Table 39. Major purchases and investments attributable to sport fishing in Saskatchewan in 2000.

Purchase	Resident	Non-resident		Total	Total
		Canadian	Other		
	\$	\$	\$	\$	\$
Fishing equipment	5,871,102	325,824	177,929	503,753	6,374,855
Boats	28,727,100	234,675	40,721	275,397	29,002,496
Camping equipment	6,695,719	1,365,316	42,630	1,407,947	8,103,665
Special vehicles	12,317,277	347,856	172,301	520,157	12,837,434
Land and buildings	8,587,830	3,005,141	2,291,118	5,296,259	13,884,089
Other investments	2,526,190	89,769	126,342	216,111	2,742,301
Totals	64,725,217	5,368,582	2,851,042	8,219,624	72,944,840
Average per angler (total population)	498	251	138	195	424

Table 40. Major purchases and investments relating in part or in whole to sport fishing in Saskatchewan, 1980-2000.

Purchase	1980	1985	1990	1995	2000
	\$	\$	\$	\$	\$
Fishing equipment	757,568	7,777,103	6,425,318	7,360,047	6,374,855
Boats	31,849,669	42,873,350	30,136,603	37,375,402	36,410,822
Camping equipment	5,959,138	34,138,367	23,661,112	24,591,573	17,312,854
Special vehicles	20,211,724	27,925,629	53,079,822	62,676,132	46,907,405
Land and buildings	1,023,275	38,244,299	43,909,581	42,660,052	36,612,347
Other investments	1,724,471	1,596,562	2,826,737	3,320,156	3,213,431
Totals	61,525,845	152,555,310	160,039,173	177,983,362	146,831,714
Average per angler (total population)	339	850	932	966	854
Totals attributable to sport fishing	27,965,381	80,739,923	82,364,036	82,594,905	72,944,840
Average per angler (total population)	145	450	480	448	424

Table 41. Major purchases and investments, in total and for fishing, in Saskatchewan, 1980-2000.

		Resident			Non-resident			Total
		Licensed	Senior	Total	Canadian	Other	Total	
1980								
Total purchases	\$	...	...	61,246,906	265,504	14,435	279,939	61,526,845
Fishing purchases	\$	...	...	27,848,842	106,053	10,486	116,539	27,965,381
Fishing proportion	%	...	...	45	40	73	42	45
1985								
Total purchases	\$	137,419,962	10,767,153	148,187,115	3,683,921	684,274	4,368,195	152,555,310
Fishing purchases	\$	70,386,975	6,862,998	77,249,973	2,811,548	678,402	3,489,950	80,739,923
Fishing proportion	%	51	64	52	76	99	80	53
1990								
Total purchases	\$	140,693,077	14,147,320	154,840,397	4,682,738	516,038	5,198,776	160,039,173
Fishing purchases	\$	68,804,461	10,950,494	79,754,955	2,118,185	490,896	2,609,081	82,364,036
Fishing proportion	%	49	77	52	45	95	50	51
1995								
Total purchases	\$	157,639,609	10,722,439	168,362,048	7,998,228	1,623,086	9,621,314	177,983,362
Fishing purchases	\$	72,299,926	6,148,374	78,448,300	2,967,228	1,179,377	4,146,605	82,594,905
Fishing proportion	%	46	57	47	37	73	43	46
2000								
Total purchases	\$	...	...	134,392,404	8,871,640	3,567,670	12,439,310	146,831,714
Fishing purchases	\$	...	...	64,725,217	5,368,582	2,851,042	8,219,624	72,944,840
Fishing proportion	%	...	...	48	61	80	66	50

Conclusions

As was seen in previous surveys, sport fishing in Saskatchewan is an important economic component of the natural resource sector in the province. It is estimated that anglers spent \$108,167,298 on activities directly associated with sport fishing. These included expenditures for accommodation, food, travel, bait and licences etc. Anglers also invested \$146,831,714 on major purchases and investments such as boats, special vehicles, and property etc. of which \$72,944,840 was used for angling. In all, anglers invested more than \$254 million, of which \$181 million was wholly attributable to angling in Saskatchewan.

Economists generally agree that the first round of expenditures in the business world does not adequately reflect the full impact of the spending described above. As money circulates through the economy, the effect increases by a factor of 1.5 or greater. This factor increases the economic impact of sport fishing in Saskatchewan to about \$381 million in 2000.

As a result of this survey, it can be concluded that angling in Saskatchewan is a fishery of major proportions. Over 233,000 anglers fished in 2000, including over 61,000 anglers under the age of 16. Residents of Saskatchewan accounted for almost 179,000 of these anglers. Anglers fished for over 2 million angler days and harvested 3.4 million fish of all species. They spent \$108 million on activities directly associated with sport fishing and invested over \$146 million on major durables and property used in whole or in part for angling.

Appendix A. Questionnaires used in 2000

List of Tables	Page
Table A1. 2000 survey of recreational fishing in Canada: Residents of Saskatchewan	52
Table A2. 2000 survey of recreational fishing in Canada: Non-residents of Saskatchewan	60

Table A1. 2000 survey of recreational fishing in Canada, Residents of Saskatchewan.



Saskatchewan
Environment
and Resource
Management



Fisheries and Oceans
Canada

Pêches et Océans
Canada

2000 SURVEY OF RECREATIONAL FISHING IN CANADA

RESIDENTS OF SASKATCHEWAN

(Le présent questionnaire est également disponible en français)

(QUESTIONS? → 1 (800) 298-9935 TOLL FREE)

ENTER THE CONTEST

Saskatchewan Environment and Resource Management will hold a random draw in Regina on May 1st, 2001 from all the questionnaires that have been completed and returned.

The prizes are:

- first five (5) questionnaires selected will receive Shimano Sahara 2000 FA Spinning Reels (Value=\$100);
- the next five (5), Fenwick Walleye Class IM6 2-Piece Spinning Rods (Value=\$100);
- the next twenty (20), Plano 3360 Soft-Sided Tackle Boxes (value=\$35);
- the next fifty (50), Pewter Sport Fish key chains; and,
- the next two hundred (200) will receive Len Thompson commemorative "2000 Sport Fish Survey" spoons.

If you would like to be eligible to win one of these prizes, write your name, address and telephone number on the last page of the questionnaire and return it in the postage-paid return envelope as soon as possible. All winners will be notified by telephone.

THANK YOU AND GOOD LUCK

NOTE TO THE RESPONDENT

In order to complete this document as easily as possible, the following instructions may be of assistance:

- the questions are to be answered only by the person to whom the questionnaire was addressed.
- this survey covers all fishing activity between January 1 and December 31, 2000.
- the term "household members" refers only to individuals living in your residence.

THANK YOU IN ADVANCE FOR YOUR COOPERATION AND ASSISTANCE.

CONFIDENTIAL WHEN COMPLETED

LICENCE INFORMATION

1. Which of the following Saskatchewan recreational fishing licences did you personally hold in 2000?
For 3-day licences, please indicate how many you purchased.

Regular annual ☐

Senior annual ☐

3-day ☐ → number purchased _____

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DFO / PPP-045-04215

Canada

YOUR PERSONAL RECREATIONAL FISHING ACTIVITIES

2a) Did you personally fish for recreation in Saskatchewan in 2000?

Yes, ☐ → please continue No, ☐ → go to question 7

b) How many days in total did you spend fishing for recreation in Saskatchewan in 2000?

(A "day" is all or any part of a day fished)

_____ days fished

c) Of the above days, how many were spent fishing through the ice in Saskatchewan in 2000?

None ☐ OR _____ days fished

3. For each water body on which you fished, please provide the name of the lake, river or stream, the nearest town or village, the number of days you fished and the number of fish you caught and kept from each in Saskatchewan in 2000. If you fished on more than eight water bodies, please provide the additional information on a separate sheet of paper.

If you fished an unnamed remote northern lake or river, please provide the name of the nearest large lake or outfitter's lodge/camp.

Please include only your personal fishing activities from January to December 2000.

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>	
Walleye (pickerel)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>	
Walleye (pickerel)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

3. continued

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish			Number of fish	
	<u>Caught</u>	<u>Kept</u>		<u>Caught</u>	<u>Kept</u>
Walleye (pickerel)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish			Number of fish	
	<u>Caught</u>	<u>Kept</u>		<u>Caught</u>	<u>Kept</u>
Walleye (pickerel)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish			Number of fish	
	<u>Caught</u>	<u>Kept</u>		<u>Caught</u>	<u>Kept</u>
Walleye (pickerel)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

3. continued

Name of lake, river or stream _____			
Number of days fished _____		Nearest town/village _____	
	Number of fish Caught Kept		Number of fish Caught Kept
Walleye (pickerel)	_____	_____	Splake _____
Northern pike (jack)	_____	_____	Lake whitefish _____
Perch	_____	_____	Goldeye _____
Lake trout	_____	_____	Grayling _____
Rainbow trout	_____	_____	Sturgeon _____
Brook trout	_____	_____	Burbot _____
Brown trout	_____	_____	Other fish _____

Name of lake, river or stream _____			
Number of days fished _____		Nearest town/village _____	
	Number of fish Caught Kept		Number of fish Caught Kept
Walleye (pickerel)	_____	_____	Splake _____
Northern pike (jack)	_____	_____	Lake whitefish _____
Perch	_____	_____	Goldeye _____
Lake trout	_____	_____	Grayling _____
Rainbow trout	_____	_____	Sturgeon _____
Brook trout	_____	_____	Burbot _____
Brown trout	_____	_____	Other fish _____

Name of lake, river or stream _____			
Number of days fished _____		Nearest town/village _____	
	Number of fish Caught Kept		Number of fish Caught Kept
Walleye (pickerel)	_____	_____	Splake _____
Northern pike (jack)	_____	_____	Lake whitefish _____
Perch	_____	_____	Goldeye _____
Lake trout	_____	_____	Grayling _____
Rainbow trout	_____	_____	Sturgeon _____
Brook trout	_____	_____	Burbot _____
Brown trout	_____	_____	Other fish _____

4a) What do you estimate was the total weight of all the fish you kept in Saskatchewan in 2000?

_____ pounds OR _____ kilograms

b) Of the fish you kept, what percentage was eaten by you or members of your household? _____ %

c) Of the fish you kept, what percentage was given to others? _____ %

d) Of the fish you kept, what percentage was discarded or not consumed? _____ %

Total 100 %

5a) Did you release any fish you caught in Saskatchewan in 2000?

Yes ₁ ☐ → please continue

No ₂ ☐ → go to question 6

b) If yes, was it because it was: mandatory ₁ ☐ voluntary ₂ ☐ both ₃ ☐

6. How would you rate your recreational fishing experience in Saskatchewan in 2000?

Excellent ₁ ☐

Very Good ₂ ☐

Good ₃ ☐

Fair ₄ ☐

Poor ₅ ☐

7. How many years have you fished for recreation in Saskatchewan?

_____ years

8. As an angler do you consider yourself to be:

an expert ₁ ☐

experienced ₂ ☐

average ₃ ☐

a beginner ₄ ☐

9. How much personal time did you give to volunteer work in support of Saskatchewan's recreational fishery in 2000 (e.g., habitat clean-up, fish passage construction)? A day is all or any part of a day worked.

Please enter 0 if you did not do volunteer work in recreational fisheries.

Number of days of volunteer work _____

Please list the names of the organizations that you assisted in support of the Saskatchewan recreational fishery in 2000. (e.g., Saskatchewan Sport Fishing Association, Saskatchewan Wildlife Federation, etc.)

10a) Would you consider purchasing your fishing licence via the Internet, if you had this option?

Yes ₁ ☐

No ₂ ☐

b) Would you consider purchasing an annual "conservation" angling licence for about half the price of the regular annual licence, even though you would only be allowed to keep half the limits of fish?

Yes ₁ ☐

No ₂ ☐

c) Would you consider purchasing a combined "fishing/hunting" licence package, if it were offered at a reduced price?

Yes ₁ ☐ → please continue

No ₂ ☐ → go to part e)

d) If yes, what combination would you prefer? ₁ ☐ Angling/Wildlife Habitat Certificate

₂ ☐ Angling/Game Bird

₃ ☐ Angling/Wildlife Habitat Certificate/Game Bird

₄ ☐ Angling/White-tailed Deer

₅ ☐ Angling/Wildlife Habitat Certificate/ White-tailed Deer

e) If offered as a voluntary option when purchasing your angling licence, would you purchase a collectible "Fish Enhancement Stamp", if the entire fee for the stamp would go towards projects which enhance fish populations and improve fish habitat?

Yes ₁ ☐ → please continue

No ₂ ☐ → go to question 11

f) If yes, what price would you be willing to pay for a "Fish Enhancement Stamp" ?

₁ ☐ \$5 or ₂ ☐ \$10 or ₃ ☐ \$_____ (enter amount)

EXPENDITURES ON RECREATIONAL FISHING IN 2000

- 11a) Did you or any member of your household make any major purchases or investments in Saskatchewan in 2000 related in whole or in part to recreational fishing? (e.g., fishing rods, boats, motors, 4x4's, snowmobiles, cabins, camping gear, trailers, ice fishing gear, etc.)

Please Note: Purchases of fishing supplies (lures, line, tackle, etc.) are covered in question 13.

Yes ☐ → please continue

No ☐ → go to question 12

- b) For each investment category, please indicate the amount of money spent in Saskatchewan in 2000 by you and members of your household and estimate the percentage of the total amount you consider was directly attributable to recreational fishing.

Investment Category	Total Amount Spent on Purchases in Saskatchewan	% of Total Attributable to Recreational Fishing
Fishing Equipment (rods, reels, fish finders, etc.)	\$ _____ .00	100 %
Boating Equipment (boats, motors, trailers, etc.)	\$ _____ .00	_____ %
Camping Equipment (tents, camper trailers, etc.)	\$ _____ .00	_____ %
Special Vehicles (4x4's, campers, ATV's, snowmobiles, etc.)	\$ _____ .00	_____ %
Land-Buildings (cabins, cottages, land, etc.)	\$ _____ .00	_____ %
Other (special clothing, waders, ice-huts, etc.)	\$ _____ .00	_____ %

- c) Of the above investments, how much was spent solely for ice fishing? \$ _____ .00
(include ice-huts, ice augers, floater coats and suits, ice fishing rods, etc.)

12. PACKAGES PURCHASED IN 2000

The following question refers only to packages purchased in Saskatchewan from a fishing lodge, guide or outfitter (or their agent) which include a complete range of services such as lodging, food, transportation, etc.

For self-organized trips, please include expenditures in question 13.

- a) Did you or any member of your household purchase any such packages to fish in Saskatchewan in 2000?

Yes ☐ → please continue

No ☐ → go to question 13

- b) If yes, what was the location and the total cost to you and your household for each package? If the package was purchased by a group, please include only your household's share.

Package 1	Cost \$ _____ .00	Name of lake, river or stream _____
Package 2	Cost \$ _____ .00	Name of lake, river or stream _____
Package 3	Cost \$ _____ .00	Name of lake, river or stream _____

13a) EXCLUDING expenditures on major purchases and package deals, please estimate the amount of money you and other members of your household spent on the following to fish for recreation in Saskatchewan in 2000.

Expenditure Category	Amount
Accommodation (hotels, motels, etc.)	\$ _____ .00
Campsite fees (private, provincial, etc.)	\$ _____ .00
Food (groceries, restaurant meals, alcoholic beverages)	\$ _____ .00
Travel costs within Saskatchewan for recreational fishing - vehicle expenses (including gas, repairs), rentals, air fares, etc.	\$ _____ .00
Household owned boat costs (gas, repairs, launch/ramp fees, moorage, insurance, etc.)	\$ _____ .00
Rentals for fishing (boats, gear, snowmobiles, ice-huts, etc.)	\$ _____ .00
Fishing supplies (bait, line, tackle, etc.)	\$ _____ .00
Guide services	\$ _____ .00
Fishing licence fees	\$ _____ .00
Access fees (park fees, etc.)	\$ _____ .00
Other (please specify) _____	\$ _____ .00

b) Of the above expenditures, approximately how much was spent for ice fishing? \$ _____ .00

RECREATIONAL BOAT OWNERSHIP AND BOATING ACTIVITIES

14a) How many boats are owned by your household? _____ boats or None ☐ → go to question 15

b) Please provide the following information for your boats:

Characteristic	BOAT 1	BOAT 2	BOAT 3	BOAT 4
Type of boat (canoe, rowboat, sailboat, inboard, outboard, inboard-outboard, etc.)	_____	_____	_____	_____
Length (in feet)	_____ ft	_____ ft	_____ ft	_____ ft
Horsepower (if applicable)	_____ hp	_____ hp	_____ hp	_____ hp
Days used for <u>all</u> recreational purposes in Saskatchewan in 2000 (including fishing)	_____ days	_____ days	_____ days	_____ days
Days used for recreational fishing in Saskatchewan in 2000	_____ days	_____ days	_____ days	_____ days
Approximately how old is this boat (years)	_____ years	_____ years	_____ years	_____ years

INFORMATION ABOUT YOU AND YOUR HOUSEHOLD

In order for us to analyze the data collected in this survey in a meaningful way, we require some personal information about you and the members of your household. This will allow us to accurately estimate the number of anglers in the province, their use of the resource and the economic benefits generated by recreational fishing in the province of Saskatchewan.

YOUR ANSWERS WILL REMAIN STRICTLY CONFIDENTIAL

15. In what year were you born? 19 ____
16. Are you: Male ☐ Female ☐
17. Excluding yourself, how many members of your household 16 years of age and over held the following Saskatchewan fishing licences in 2000? For 3-day licences, please provide the number purchased.

<u>Licence Type</u>	<u>Number of Household Members Holding Licence</u>	<u>Number Purchased</u>
Regular annual	_____	
Senior annual	_____	
3-day	_____	_____

18. How many members of your household under 16 years of age fished for recreation in Saskatchewan in 2000 and how many days in total did they fish?

_____ household members under 16 years of age _____ total days fished

THANK YOU FOR YOUR COOPERATION

If you have any questions concerning recreational fishing in Saskatchewan or in regards to the contest, please call:
1-877-972-2228 (TOLL FREE)

COMMENTS:

Contest entry information: (Please print)

Name:	
Address:	
City:	
Province:	
Postal Code:	
Phone number: ()	

Table A2. 2000 survey of recreational fishing in Canada, non-residents of Saskatchewan.

Fisheries and Oceans
CanadaPêches et Océans
Canada**2000 SURVEY OF RECREATIONAL FISHING
IN CANADA**

(Le présent questionnaire est également disponible en français)

(QUESTIONS? → 1 (800) 298-9935 TOLL FREE)

ENTER THE CONTEST

Saskatchewan Environment and Resource Management will hold a random draw in Regina on May 1st, 2001 from all the questionnaires that have been completed and returned.

The prizes are:

- first five (5) questionnaires selected will receive Shimano Sahara 2000 FA Spinning Reels (Value=\$100);
- the next five (5), Fenwick Walleye Class IM6 2-Piece Spinning Rods (Value=\$100);
- the next twenty (20), Plano 3360 Soft-Sided Tackle Boxes (value=\$35);
- the next fifty (50), Pewter Sport Fish key chains; and,
- the next two hundred (200) will receive Len Thompson commemorative "2000 Sport Fish Survey" spoons.

If you would like to be eligible to win one of these prizes, write your name, address and telephone number on the last page of the questionnaire and return it in the postage-paid return envelope as soon as possible. All winners will be notified by telephone.

THANK YOU AND GOOD LUCK**NOTE TO THE RESPONDENT**

In order to complete this document as easily as possible, the following instructions may be of assistance:

- the questions are to be answered only by the person to whom the questionnaire was addressed.
- this survey covers all fishing activity between January 1 and December 31, 2000.
- the term "household members" refers only to individuals living in your residence.

THANK YOU IN ADVANCE FOR YOUR COOPERATION AND ASSISTANCE.**CONFIDENTIAL WHEN COMPLETED****LICENCE INFORMATION**

1. Which of the following Saskatchewan recreational fishing licences did you personally hold in 2000?
For 3-day licences, please indicate how many you purchased.

Annual ☐3-day ☐ → number purchased _____

Printed on recycled paper

DFO / PPP-045-04215

Canada

2a) Did you personally fish for recreation in Saskatchewan in 2000?

Yes, ☐ → please continue

No, ☐ → go to question 6

b) How many days in total did you spend fishing for recreation in Saskatchewan in 2000?

(A "day" is all or any part of a day fished)

_____ days fished

c) Of the above days, how many days were spent fishing through the ice in Saskatchewan in 2000?

None ☐

OR

_____ days fished

3. For each water body on which you fished, please provide the name of the lake, river or stream, the nearest town or village, the number of days you fished and the number of fish you caught and kept from each in Saskatchewan in 2000. If you fished on more than eight water bodies, please provide the additional information on a separate sheet of paper. If you fished an unnamed remote northern lake or river, please provide the name of the nearest large lake or outfitter's lodge/camp.

Please include only your personal fishing activities from January to December 2000.

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish Caught Kept			Number of fish Caught Kept	
Walleye (pickeral)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

Name of lake, river or stream _____					
Number of days fished _____			Nearest town/village _____		
	Number of fish Caught Kept			Number of fish Caught Kept	
Walleye (pickeral)	_____	_____	Splake	_____	_____
Northern pike (jack)	_____	_____	Lake whitefish	_____	_____
Perch	_____	_____	Goldeye	_____	_____
Lake trout	_____	_____	Grayling	_____	_____
Rainbow trout	_____	_____	Sturgeon	_____	_____
Brook trout	_____	_____	Burbot	_____	_____
Brown trout	_____	_____	Other fish	_____	_____

3. continued

Name of lake, river or stream _____		
Number of days fished _____		Nearest town/village _____
	Number of fish	Number of fish
	<u>Caught</u> <u>Kept</u>	<u>Caught</u> <u>Kept</u>
Walleye (pickarel)	_____	Splake _____
Northern pike (jack)	_____	Lake whitefish _____
Perch	_____	Goldeye _____
Lake trout	_____	Grayling _____
Rainbow trout	_____	Sturgeon _____
Brook trout	_____	Burbot _____
Brown trout	_____	Other fish _____

Name of lake, river or stream _____		
Number of days fished _____		Nearest town/village _____
	Number of fish	Number of fish
	<u>Caught</u> <u>Kept</u>	<u>Caught</u> <u>Kept</u>
Walleye (pickarel)	_____	Splake _____
Northern pike (jack)	_____	Lake whitefish _____
Perch	_____	Goldeye _____
Lake trout	_____	Grayling _____
Rainbow trout	_____	Sturgeon _____
Brook trout	_____	Burbot _____
Brown trout	_____	Other fish _____

Name of lake, river or stream _____		
Number of days fished _____		Nearest town/village _____
	Number of fish	Number of fish
	<u>Caught</u> <u>Kept</u>	<u>Caught</u> <u>Kept</u>
Walleye (pickarel)	_____	Splake _____
Northern pike (jack)	_____	Lake whitefish _____
Perch	_____	Goldeye _____
Lake trout	_____	Grayling _____
Rainbow trout	_____	Sturgeon _____
Brook trout	_____	Burbot _____
Brown trout	_____	Other fish _____

3. continued

Name of lake, river or stream _____		Nearest town/village _____	
Number of days fished _____			
	Number of fish Caught Kept		Number of fish Caught Kept
Walleye (pickerel)	_____	Splake	_____
Northern pike (jack)	_____	Lake whitefish	_____
Perch	_____	Goldeye	_____
Lake trout	_____	Grayling	_____
Rainbow trout	_____	Sturgeon	_____
Brook trout	_____	Burbot	_____
Brown trout	_____	Other fish	_____

Name of lake, river or stream _____		Nearest town/village _____	
Number of days fished _____			
	Number of fish Caught Kept		Number of fish Caught Kept
Walleye (pickerel)	_____	Splake	_____
Northern pike (jack)	_____	Lake whitefish	_____
Perch	_____	Goldeye	_____
Lake trout	_____	Grayling	_____
Rainbow trout	_____	Sturgeon	_____
Brook trout	_____	Burbot	_____
Brown trout	_____	Other fish	_____

4a) Did you release any fish you caught in Saskatchewan in 2000?

Yes ☐ → please continueNo ☐ → go to question 5b) If yes, was it because it was: mandatory ☐ voluntary ☐ both ☐

5. How would you rate your recreational fishing experience in Saskatchewan in 2000?

Excellent ☐Very good ☐Good ☐Fair ☐Poor ☐

Walleye

6. How many years have you fished for recreation in Saskatchewan? _____ years
7. As an angler, do you consider yourself to be:
 an expert ☐ experienced ☐ average ☐ a beginner ☐
- 8a) Would you consider purchasing your fishing licence via the internet, if you had this option?
 Yes ☐ No ☐
- b) Would you consider purchasing an annual "conservation" angling licence for about half the price of the regular annual licence, even though you would only be allowed to keep half the limits of fish?
 Yes ☐ No ☐
- c) Would you consider purchasing a combined "fishing/hunting" licence package, if it were offered at a reduced price?
 Yes ☐ → please continue No ☐ → go to part e)
- d) If yes, what combination would you prefer? ☐ Angling/Wildlife Habitat Certificate
☐ Angling/Game Bird
☐ Angling/Wildlife Habitat Certificate/Game Bird
☐ Angling/White-tailed Deer
☐ Angling/Wildlife Habitat Certificate/ White-tailed Deer
- e) If offered as a voluntary option when purchasing your angling licence, would you purchase a collectible "Fish Enhancement Stamp", if the entire fee for the stamp would go towards projects which enhance fish populations and improve fish habitat?
 Yes ☐ → please continue No ☐ → go to question 9
- f) If yes, what price would you be willing to pay for a "Fish Enhancement Stamp"?
☐ \$5 or ☐ \$10 or ☐ \$_____ (enter amount)
9. Which of the following sources of information did you use when planning your fishing activities to Saskatchewan in 2000?

Please rate each information source on a scale of 1 (did not use), 2 (sometimes), 3 (often)

Information Source	Rating	Information Source	Rating
None <input type="radio"/> go to question 10		Tourism ads on television or radio	_____
Travel agent / tour operator	_____	Brochures and pamphlets	_____
Magazines / newspapers	_____	Friends / family / other anglers	_____
Bait and tackle shops	_____	Saskatchewan Environment and Resource Management	_____
Outdoor / sports shows	_____	Clubs / associations	_____
Internet / web sites	_____	Other	_____

10a) How many trips did you make to Saskatchewan in 2000?

(A trip should be counted each time you crossed the border into the province).

_____ trips

b) How many days in total did you spend in Saskatchewan in 2000 for all reasons?

_____ days

c) On how many of your trips to Saskatchewan in 2000 did you fish?

_____ trips

d) How many of your fishing trips to Saskatchewan in 2000 were day-trips requiring no accommodation?

_____ trips

e) For the remaining fishing trips, how many nights were spent in Saskatchewan?

_____ nights

11. If there had been no fishing opportunities in Saskatchewan in 2000, would you have: (please check one only)

stayed a shorter time ☐

substituted other activities ☐

not come at all ☐

Please indicate which currency you will be using to answer the following expenditure questions:

Canadian Dollars ☐

U.S. Dollars ☐

12a) Did you or any member of your household make any major purchases or investments in Saskatchewan in 2000 related in whole or in part to recreational fishing? (e.g. fishing rods, boats, motors, snowmobiles, 4x4's, cabins, camping gear, trailers, ice fishing gear, etc.)

Please Note: Purchases of fishing supplies (lures, line, tackle, etc.) are covered in question 14.

Yes ☐ → please continue

No ☐ → go to question 13

b) For each investment category, please indicate the amount of money spent in Saskatchewan by you and members of your household and estimate the percentage of the amount you consider was directly attributable to recreational fishing.

Investment Category	Total Amount Spent on Purchases in Saskatchewan	% of Total Attributable to Recreational Fishing
Fishing Equipment (rods, reels, fish finders, etc.)	\$ _____ .00	100%
Boating Equipment (boats, motors, trailers, etc.)	\$ _____ .00	_____ %
Camping Equipment (tents, camper trailers, etc.)	\$ _____ .00	_____ %
Special Vehicles (4x4's, camper truck, ATV's, snowmobiles, etc.)	\$ _____ .00	_____ %
Land-Buildings (cabins, cottages, land, etc.)	\$ _____ .00	_____ %
Other (special clothing, waders, ice-huts, etc.)	\$ _____ .00	_____ %

c) Of the above investments, how much was spent solely for ice fishing?

\$ _____ .00

(include ice-huts, ice augers, floater coats and suits, ice fishing rods, etc.)

13. PACKAGES PURCHASED IN 2000

The following question refers only to packages purchased in Saskatchewan from a lodge or outfitter (or their agent) which include a complete range of services such as lodging, food, transportation, etc.

For self-organized trips, please include expenditures in question 14.

- a) Did you or any member of your household purchase any such packages to fish in Saskatchewan in 2000?

Yes ☐ → please continue

No ☐ → go to question 14

- b) If yes, what was the location and the total cost to you and your household for each package? If the package was purchased by a group, please include only your household's share.

Package 1	Cost \$ _____ .00	Name of lake, river or stream _____
Package 2	Cost \$ _____ .00	Name of lake, river or stream _____
Package 3	Cost \$ _____ .00	Name of lake, river or stream _____

- 14a) **EXCLUDING** expenditures on major purchases and package deals, please estimate the amount of money you and other members of your household spent on the following to fish for recreation in Saskatchewan in 2000.

Expenditure Category	Amount
Accommodation (hotels, motels, etc.)	\$ _____ .00
Campsite fees (private, provincial, etc.)	\$ _____ .00
Food (groceries, restaurant meals, alcoholic beverages)	\$ _____ .00
Travel costs within Saskatchewan for recreational fishing - vehicle expenses (including gas, repairs), rentals, air fares, etc.	\$ _____ .00
Household owned boat costs (gas, repairs, launch/ramp fees, moorage, insurance, etc.)	\$ _____ .00
Rentals for fishing (boats, gear, snowmobiles, ice-huts, etc.)	\$ _____ .00
Fishing supplies (bait, line, tackle, etc.)	\$ _____ .00
Guide services	\$ _____ .00
Fishing licence fees	\$ _____ .00
Access fees (park fees, etc.)	\$ _____ .00
Other (please specify) _____	\$ _____ .00

- b) Of the above expenditures, approximately how much was spent for ice fishing?

\$ _____ .00

In order for us to analyze the data collected in this survey in a meaningful way, we require some personal information about you and the members of your household. This will allow us to accurately estimate the number of anglers in the province, their use of the resource and the economic benefits generated by recreational fishing in the province of Saskatchewan.

YOUR ANSWERS WILL REMAIN STRICTLY CONFIDENTIAL

15. In what year were you born? 19__

16. Are you: Male ☐ Female ☐

17. **Excluding yourself**, how many members of your household 16 years of age and over held the following Saskatchewan fishing licences in 2000? For 3-day licences, please give the number purchased.

<u>Licence Type</u>	<u>Number of Household Members Holding Licence</u>	<u>Number Purchased</u>
Annual	_____	_____
3-day	_____	_____

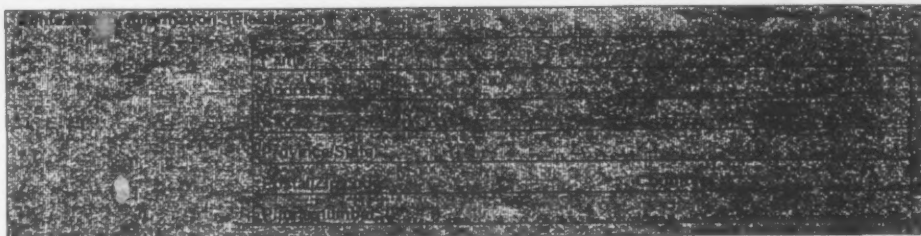
18. How many members of your household under 16 years of age fished for recreation in Saskatchewan in 2000 and how many days in total did they fish?

_____ household members _____ total days fished

THANK YOU FOR YOUR COOPERATION

If you have any questions concerning recreational fishing in Saskatchewan or in regards to the contest, please call:
1-877-972-2228 (TOLL FREE)

COMMENTS:



Appendix B. Angler Harvest

List of Tables	Page
Table B1. Numbers of fish caught in each fisheries management zone and survey area by total active resident adult anglers in Saskatchewan, 2000	70
Table B2. Numbers of fish caught in each fisheries management zone and survey area by active non-resident Canadian adult anglers in Saskatchewan, 2000.....	71
Table B3. Numbers of fish caught in each fisheries management zone and survey area by active non-resident other adult anglers in Saskatchewan, 2000.....	72
Table B4. Numbers of fish caught in each fisheries management zone and survey area by total active non-resident adult anglers in Saskatchewan, 2000.....	73
Table B5. Numbers of fish caught in each fisheries management zone and survey area by all active adult anglers in Saskatchewan, 2000	74
Table B6. Numbers of fish kept in each fisheries management zone and survey area by active resident licenced adult anglers in Saskatchewan, 2000.....	75
Table B7. Numbers of fish kept in each fisheries management zone and survey area by active non-resident Canadian adult anglers in Saskatchewan, 2000.....	76
Table B8. Numbers of fish kept in each fisheries management zone and survey area by active non-resident other adult anglers in Saskatchewan, 2000.....	77
Table B9. Numbers of fish kept in each fisheries management zone and survey area by total active non-resident adult anglers in Saskatchewan, 2000.....	78
Table B10. Numbers of fish kept in each fisheries management zone and survey area by all active adult anglers in Saskatchewan, 2000	79
Table B11. Weight of fish kept in each fisheries management zone and survey area by active resident licenced adult anglers in Saskatchewan, 2000	80
Table B12. Weight of fish kept in each fisheries management zone and survey area by active non-resident Canadian adult anglers in Saskatchewan, 2000.....	81
Table B13. Weight of fish kept in each fisheries management zone and survey area by active non-resident other adult anglers in Saskatchewan, 2000.....	82
Table B14. Weight of fish kept in each fisheries management zone and survey area by total active non-resident adult anglers in Saskatchewan, 2000.....	83

Table B15.	Weight of fish kept in each fisheries management zone and survey area by all active adult anglers in Saskatchewan, 2000.....	84
Table B16.	The average number of fish of the major species kept per angler-day and per angler in the North area of Saskatchewan, 2000.....	85
Table B17.	The average number of fish of the major species kept per angler-day and per angler in the North Central area of Saskatchewan, 2000.....	86
Table B18.	The average number of fish of the major species kept per angler-day and per angler in the Northwest Central area of Saskatchewan, 2000.....	87
Table B19.	The average number of fish of the major species kept per angler-day and per angler in the Northeast Central area of Saskatchewan, 2000.....	88
Table B20.	The average number of fish of the major species kept per angler-day and per angler in the Tobin Lake area of Saskatchewan, 2000	89
Table B21.	The average number of fish of the major species kept per angler-day and per angler in the Southwest Central area of Saskatchewan, 2000.....	90
Table B22.	The average number of fish of the major species kept per angler-day and per angler in the Southeast Central area of Saskatchewan, 2000.....	91
Table B23.	The average number of fish of the major species kept per angler-day and per angler in the South area of Saskatchewan, 2000.....	92
Table B24.	The average number of fish of the major species kept per angler-day and per angler in the Qu'Appelle area of Saskatchewan, 2000.....	93
Table B25.	The average number of fish of the major species kept per angler-day and per angler in Saskatchewan, 2000	94

Table B1. Numbers of fish caught in each fisheries management zone and survey area by active resident licenced adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	265,185	573,266	222,561	194,893	77,355	1,068,075	468,483	166,286	415,253	153,277	1,203,299	2,536,559
Walleye	122,105	550,449	64,344	179,398	266,237	1,060,428	147,289	208,666	717,203	379,934	1,453,092	2,635,625
Perch	452	140,060	77,430	31,058	14,161	262,709	324,796	220,731	990,851	590,933	2,127,311	2,390,472
Lake Trout	109,819	39,245	313	7,261	0	46,819	0	1,163	0	0	1,163	157,801
Totals	497,561	1,303,020	364,648	412,610	357,753	2,438,031	940,568	596,846	2,123,307	1,124,144	4,784,865	7,720,457
Stocked Species												
Rainbow Trout	867	9,935	1,185	15,612	1,616	28,348	12,652	11,613	293,435	1,974	319,674	348,889
Brook Trout	452	2,413	0	7,642	0	10,055	0	489	1,282	0	1,771	12,278
Brown Trout	0	75	446	883	0	1,404	0	0	629	0	629	2,033
Splake	432	2,657	515	4,094	0	7,266	829	190	1,230	75	2,324	10,022
Totals	1,751	15,080	2,146	28,231	1,616	47,073	13,481	12,292	296,576	2,049	324,398	373,222
Other Species												
Whitefish	5,887	5,513	664	2,064	699	8,940	10,220	1,037	17,719	15,356	44,332	59,159
Goldeye	0	0	0	603	13,744	14,347	112	30,180	28,068	0	58,360	72,707
Grayling	3,868	0	0	0	0	0	0	0	603	0	603	4,471
Sturgeon	0	0	0	0	603	603	0	3,188	75	0	3,263	3,866
Other*	75	7,102	75	7,302	3,303	17,782	7,880	8,431	18,206	45,071	79,588	97,445
Totals	9,830	12,615	739	9,969	18,349	41,672	18,212	42,836	64,671	60,427	186,146	237,648
All Species	509,142	1,330,715	367,533	450,810	377,718	2,526,776	972,261	651,974	2,484,554	1,186,620	5,295,409	8,331,327

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B2. Numbers of fish caught in each fisheries management zone and survey area by active non-resident Canadian adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	100,536	148,703	92,532	7,597	4,109	252,941	58,141	8,934	16,936	2,492	86,503	439,980
Walleye	17,978	130,733	23,928	10,594	13,292	178,547	22,067	4,927	44,178	6,343	77,515	274,040
Perch	8,908	21,031	15,643	63	94	36,831	45,522	2,618	32,881	1,729	82,750	128,489
Lake Trout	65,030	27,324	9,411	0	0	36,735	0	0	0	0	0	101,765
Totals	192,452	327,791	141,514	18,254	17,495	505,054	125,730	16,479	93,995	10,564	246,768	944,274
Stocked Species												
Rainbow Trout	94	881	220	793	0	1,894	3,632	201	7,397	63	11,293	13,281
Brook Trout	0	0	0	472	0	472	31	0	0	0	31	503
Brown Trout	0	0	0	94	0	94	31	0	94	0	125	219
Splake	157	1,511	94	63	0	1,668	0	0	0	0	0	1,825
Totals	251	2,392	314	1,422	0	4,128	3,694	201	7,491	63	11,449	15,828
Other Species												
Whitefish	1,039	316	94	157	0	567	2,612	0	409	0	3,021	4,627
Goldeye	0	0	0	0	2,072	2,072	0	1,322	4,518	0	5,840	7,912
Grayling	1,259	63	0	0	0	63	0	0	0	0	0	1,322
Sturgeon	0	0	0	0	264	264	0	63	0	0	63	327
Other*	0	1,420	251	0	214	1,885	125	346	640	182	1,293	3,178
Totals	2,298	1,799	345	157	2,550	4,851	2,737	1,731	5,567	182	10,217	17,366
All Species	195,001	331,982	142,173	19,833	20,045	514,033	132,161	18,411	107,053	10,809	268,434	977,468

*Others include burbot and fish not identified by respondents

Table B3. Numbers of fish caught in each fisheries management zone and survey area by active non-resident other adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	805,284	316,996	10,828	9,018	11,032	347,874	13,283	3,614	25,246	5,186	47,329	1,200,487
Walleye	197,494	190,612	1,063	14,735	50,515	256,925	3,504	7,504	76,425	18,557	105,990	560,409
Perch	299	4,019	332	897	5,414	10,662	199	15	33,791	9,735	43,740	54,701
Lake Trout	153,518	23,915	996	0	1,196	26,107	0	0	0	0	0	179,625
Totals	1,156,595	535,542	13,219	24,650	68,157	641,568	16,986	11,133	135,462	33,478	197,059	1,995,222
Stocked Species												
Rainbow Trout	5,779	531	199	0	197	927	33	6,643	2,245	0	8,921	15,627
Brook Trout	0	166	0	0	0	166	0	0	0	0	0	166
Brown Trout	33	0	0	0	0	0	0	0	0	0	0	33
Splake	0	0	0	0	0	0	0	0	0	0	0	0
Totals	5,812	697	199	0	197	1,093	33	6,643	2,245	0	8,921	15,826
Other Species												
Whitefish	2,358	631	0	100	33	764	0	33	289	0	322	3,444
Goldeye	133	0	0	0	1,174	1,174	0	0	277	0	277	1,584
Grayling	32,982	100	0	0	0	100	0	0	0	0	0	33,082
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	332	897	0	66	2,405	3,368	0	0	199	0	199	3,899
Totals	35,805	1,628	0	166	3,612	5,406	0	33	765	0	798	42,009
All Species	1,198,212	537,867	13,418	24,816	71,966	648,067	17,019	17,809	138,472	33,478	206,778	2,053,057

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B4. Numbers of fish caught in each fisheries management zone and survey area by total active non-resident adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	905,820	465,699	103,360	16,615	15,141	600,815	71,424	12,548	42,182	7,678	133,832	1,640,467
Walleye	215,472	321,345	24,991	25,329	63,807	435,472	25,571	12,431	120,603	24,900	183,505	834,449
Perch	9,207	25,050	15,975	960	5,508	47,493	45,721	2,633	66,672	11,464	126,490	183,190
Lake Trout	218,548	51,239	10,407	0	1,196	62,842	0	0	0	0	0	281,390
Totals	1,349,047	863,333	154,733	42,904	85,652	1,146,622	142,716	27,612	229,457	44,042	443,827	1,590,449
Stocked Species												
Rainbow Trout	5,873	1,412	419	793	197	2,821	3,665	6,844	9,642	63	20,214	28,908
Brook Trout	0	166	0	472	0	638	31	0	0	0	31	669
Brown Trout	33	0	0	94	0	94	31	0	94	0	125	252
Splake	157	1,511	94	63	0	1,668	0	0	0	0	0	1,825
Totals	6,063	3,089	513	1,422	197	5,221	3,727	6,844	9,736	63	20,370	25,591
Other Species												
Whitefish	3,397	947	94	257	33	1,331	2,612	33	698	0	3,343	8,071
Goldeye	133	0	0	0	3,246	3,246	0	1,322	4,795	0	6,117	9,496
Grayling	34,241	163	0	0	0	163	0	0	0	0	0	34,404
Sturgeon	0	0	0	0	264	264	0	63	0	0	63	327
Other*	332	2,317	251	66	2,619	5,253	125	346	839	182	1,492	7,077
Totals	38,103	3,427	345	323	6,162	10,257	2,737	1,764	6,332	182	11,015	21,272
All Species	1,393,213	869,849	155,591	44,649	92,011	1,162,100	149,180	36,220	245,525	44,287	475,212	1,637,312

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B5. Numbers of fish caught in each fisheries management zone and survey area by all active adult anglers in Saskatchewan, 2000.

Species	Area Fished										Total	
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South Qu'Appelle	Total		
Major Species												
Pike	1,171,005	1,038,965	325,921	211,508	92,496	1,668,890	539,907	178,834	457,435	160,955	1,337,131	4,177,026
Walleye	337,577	871,794	89,335	204,727	330,044	1,495,900	172,860	221,097	837,806	404,834	1,636,597	3,470,074
Perch	9,659	165,110	93,405	32,018	19,669	310,202	370,517	223,364	1,057,523	602,397	2,253,801	2,573,662
Lake Trout	328,367	90,484	10,720	7,261	1,196	109,661	0	1,163	0	0	1,163	439,191
Totals	1,846,608	2,166,353	519,381	455,514	443,405	3,584,653	1,083,284	624,458	2,352,764	1,168,186	5,228,692	10,659,953
Stocked Species												
Rainbow Trout	6,740	11,347	1,604	16,405	1,813	31,169	16,317	18,457	303,077	2,037	339,888	377,797
Brook Trout	452	2,579	0	8,114	0	10,693	31	489	1,282	0	1,802	12,947
Brown Trout	33	75	446	977	0	1,498	31	0	723	0	754	2,285
Splake	589	4,168	609	4,157	0	8,934	829	190	1,230	75	2,324	11,847
Totals	7,814	18,169	2,659	29,653	1,813	52,294	17,208	19,136	306,312	2,112	344,768	404,876
Other Species												
Whitefish	9,284	6,460	758	2,321	732	10,271	12,832	1,070	18,417	15,356	47,675	67,230
Goldeye	133	0	0	603	16,990	17,593	112	31,502	32,863	0	64,477	82,203
Grayling	38,109	163	0	0	0	163	0	0	603	0	603	38,875
Sturgeon	0	0	0	0	867	867	0	3,251	75	0	3,326	4,193
Other*	407	9,419	326	7,368	5,922	23,035	8,005	8,777	19,045	45,253	81,080	104,522
Totals	47,933	16,042	1,084	10,292	24,511	51,929	20,949	44,600	71,003	60,609	197,161	297,023
All Species	1,902,355	2,200,564	523,124	495,459	469,729	3,688,876	1,121,441	688,194	2,730,079	1,230,907	5,770,621	11,361,852

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B6. Numbers of fish kept in each fisheries management zone and survey area by total active resident adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	23,902	145,398	95,062	70,411	13,488	324,359	196,275	71,908	123,716	46,714	438,613	786,874
Walleye	14,404	194,902	34,686	89,896	43,325	362,809	72,886	93,635	256,471	110,799	533,791	911,004
Perch	452	65,901	42,142	11,301	4,588	123,932	138,222	84,057	395,631	298,867	916,777	1,041,161
Lake Trout	11,430	15,400	313	3,740	0	19,453	0	698	0	0	698	31,581
Totals	50,188	421,601	172,203	175,348	61,401	830,553	407,383	250,298	775,818	456,380	1,889,879	2,770,620
Stocked Species												
Rainbow Trout	705	4,433	1,185	5,831	1,239	12,688	5,227	5,222	167,843	1,886	180,178	193,571
Brook Trout	151	528	0	6,173	0	6,701	0	489	452	0	941	7,793
Brown Trout	0	75	446	733	0	1,254	0	0	328	0	328	1,582
Splake	432	2,506	515	2,248	0	5,269	754	0	634	0	1,388	7,089
Totals	1,288	7,542	2,146	14,985	1,239	25,912	5,981	5,711	169,257	1,886	182,835	210,035
Other Species												
Whitefish	0	1,246	362	434	69	2,111	7,942	0	6,568	377	14,887	16,998
Goldeye	0	0	0	0	519	519	0	3,636	4,440	0	8,076	8,595
Grayling	0	0	0	0	0	0	0	0	603	0	603	603
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	1,964	75	1,636	365	4,040	3,053	1,260	2,840	16,349	23,502	27,542
Totals	0	3,210	437	2,070	953	6,670	10,995	4,896	14,451	16,726	47,068	53,738
All Species	51,476	432,353	174,786	192,403	63,593	863,135	424,359	260,905	959,526	474,992	2,119,782	3,034,393

Table B7. Numbers of fish kept in each fisheries management zone and survey area by active non-resident Canadian adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central		Southern							
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	6,830	21,369	20,295	2,914	843	45,421	15,026	2,660	4,216	327	22,229	74,480
Walleye	4,532	37,597	6,270	7,718	2,253	53,838	7,995	2,184	11,220	484	21,883	80,253
Perch	4,627	9,557	4,501	63	0	14,121	17,681	938	9,277	163	28,059	46,807
Lake Trout	4,186	2,455	2,612	0	0	5,067	0	0	0	0	0	9,253
Totals	20,175	70,978	33,678	10,695	3,096	118,447	40,702	5,782	24,713	974	72,171	210,793
Stocked Species												
Rainbow Trout	94	315	94	38	0	447	2,688	170	2,824	0	5,682	6,223
Brook Trout	0	0	0	31	0	31	0	0	0	0	0	31
Brown Trout	0	0	0	0	0	0	0	0	0	0	0	0
Splake	157	1,102	94	63	0	1,259	0	0	0	0	0	1,416
Totals	251	1,417	188	132	0	1,737	2,688	170	2,824	0	5,682	7,670
Other Species												
Whitefish	283	0	94	63	0	157	1,857	0	94	0	1,951	2,391
Goldeye	0	0	0	0	301	301	0	63	63	0	126	427
Grayling	0	0	0	0	0	0	0	0	0	0	0	0
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	94	62	0	0	156	0	0	0	125	125	281
Totals	283	94	156	63	301	614	1,857	63	157	125	2,202	3,099
All Species	20,709	72,489	34,022	10,890	3,397	120,798	45,247	6,015	27,694	1,099	80,055	221,562

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B8. Numbers of fish kept in each fisheries management zone and survey area by active non-resident other adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	20,157	30,930	897	660	1,467	33,954	2,024	259	4,277	857	7,417	61,528
Walleye	19,563	35,637	365	1,326	6,774	44,102	1,677	680	21,498	1,864	25,719	89,384
Perch	0	897	0	0	199	1,096	199	15	13,027	254	13,495	14,591
Lake Trout	9,001	3,421	166	0	133	3,720	0	0	0	0	0	12,721
Totals	48,721	70,885	1,428	1,986	8,573	82,872	3,900	954	38,802	2,975	46,631	178,224
Stocked Species												
Rainbow Trout	399	100	0	0	31	131	0	0	441	0	441	971
Brook Trout	0	66	0	0	0	66	0	0	0	0	0	66
Brown Trout	0	0	0	0	0	0	0	0	0	0	0	0
Splake	0	0	0	0	0	0	0	0	0	0	0	0
Totals	399	166	0	0	31	197	0	0	441	0	441	1,037
Other Species												
Whitefish	133	166	0	0	0	166	0	33	0	0	33	332
Goldeye	0	0	0	0	123	123	0	0	0	0	0	123
Grayling	432	0	0	0	0	0	0	0	0	0	0	432
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	66	0	0	15	81	0	0	199	0	199	280
Totals	565	232	0	0	138	370	0	33	199	0	232	1,167
All Species	49,685	71,283	1,428	1,986	8,742	83,439	3,900	987	39,442	2,975	47,304	180,428

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B9. Numbers of fish kept in each fisheries management zone and survey area by total active non-resident adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central		Southern							
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	26,987	52,299	21,192	3,574	2,310	79,375	17,050	2,919	8,493	1,184	29,646	136,008
Walleye	24,095	73,234	6,635	9,044	9,027	97,940	9,672	2,864	32,718	2,348	47,602	169,637
Perch	4,627	10,454	4,501	63	199	15,217	17,880	953	22,304	417	41,554	61,398
Lake Trout	13,187	5,876	2,778	0	133	8,787	0	0	0	0	0	21,974
Totals	68,896	141,863	35,106	12,681	11,669	201,319	44,602	6,736	63,515	3,949	118,802	389,017
Stocked Species												
Rainbow Trout	493	415	94	38	31	578	2,688	170	3,265	0	6,123	7,194
Brook Trout	0	66	0	31	0	97	0	0	0	0	0	97
Brown Trout	0	0	0	0	0	0	0	0	0	0	0	0
Splake	157	1,102	94	63	0	1,259	0	0	0	0	0	1,416
Totals	650	1,583	188	132	31	1,934	2,688	170	3,265	0	6,123	8,707
Other Species												
Whitefish	416	166	94	63	0	323	1,857	33	94	0	1,984	2,723
Goldeye	0	0	0	0	424	424	0	63	63	0	126	550
Grayling	432	0	0	0	0	0	0	0	0	0	0	432
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	160	62	0	15	237	0	0	199	125	324	561
Totals	848	326	156	63	439	984	1,857	96	356	125	2,434	4,266
All Species	70,394	143,772	35,450	12,876	12,139	204,237	49,147	7,002	67,136	4,074	127,359	401,990

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B10. Numbers of fish kept in each fisheries management zone and survey area by all active adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central					Southern				
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	50,889	197,697	116,254	73,985	15,798	403,734	213,325	74,827	132,209	47,898	468,259	922,882
Walleye	38,499	268,136	41,321	98,940	52,352	460,749	82,558	96,499	289,189	113,147	581,393	1,080,641
Perch	5,079	76,355	46,643	11,364	4,787	139,149	156,102	85,010	417,935	299,284	958,331	1,102,559
Lake Trout	24,617	21,276	3,091	3,740	133	28,240	0	698	0	0	698	53,555
Totals	119,084	563,464	207,309	188,029	73,070	1,031,872	451,985	257,034	839,333	460,329	2,008,681	3,159,637
Stocked Species												
Rainbow Trout	1,198	4,848	1,279	5,869	1,270	13,266	7,915	5,392	171,108	1,886	186,301	200,765
Brook Trout	151	594	0	6,204	0	6,798	0	489	452	0	941	7,890
Brown Trout	0	75	446	733	0	1,254	0	0	328	0	328	1,582
Splake	589	3,608	609	2,311	0	6,528	754	0	634	0	1,388	8,505
Totals	1,938	9,125	2,334	15,117	1,270	27,846	8,669	5,881	172,522	1,886	188,958	218,742
Other Species												
Whitefish	416	1,412	456	497	69	2,434	9,799	33	6,662	377	16,871	19,721
Goldeye	0	0	0	0	943	943	0	3,699	4,503	0	8,202	9,145
Grayling	432	0	0	0	0	0	0	0	603	0	603	1,035
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	2,124	137	1,636	380	4,277	3,053	1,260	3,039	16,474	23,826	28,103
Totals	848	3,536	593	2,133	1,392	7,654	12,852	4,992	14,807	16,851	49,502	58,004
All Species	121,870	576,125	210,236	205,279	75,732	1,067,372	473,506	267,907	1,026,662	479,066	2,247,141	3,436,383

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B11. Weight of fish kept in each fisheries management zone and survey area by active resident licenced adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern			Central			Southern					
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	37,287	191,925	125,482	92,943	17,804	428,154	204,126	74,784	128,665	48,583	456,158	921,599
Walleye	13,972	183,208	32,605	84,502	40,726	341,040	62,682	80,526	220,565	95,287	459,060	814,073
Perch	99	14,498	9,271	2,486	1,009	27,265	30,409	18,493	87,039	65,751	201,691	229,055
Lake Trout	22,517	30,338	617	7,368	0	38,322	0	1,375	0	0	1,375	62,215
Totals	73,876	419,969	167,975	187,299	59,539	834,782	297,217	175,178	436,269	209,620	1,118,284	2,026,941
Stocked Species												
Rainbow Trout	839	5,275	1,410	6,939	1,474	15,099	6,220	6,214	199,733	2,244	214,412	230,349
Brook Trout	71	248	0	2,901	0	3,149	0	230	212	0	442	3,663
Brown Trout	0	40	236	388	0	665	0	0	174	0	174	838
Splake	510	2,957	608	2,653	0	6,217	890	0	748	0	1,638	8,365
Totals	1,420	8,520	2,254	12,881	1,474	25,130	7,110	6,444	200,868	2,244	216,666	243,216
Other Species												
Whitefish	0	1,134	329	395	63	1,921	7,227	0	5,977	343	13,547	15,468
Goldeye	0	0	0	0	176	176	0	1,236	1,510	0	2,746	2,922
Grayling	0	0	0	0	0	0	0	0	332	0	332	332
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	923	35	769	172	1,899	1,435	592	1,335	7,684	11,046	12,945
Totals	0	2,057	365	1,164	411	3,996	8,662	1,828	9,153	8,027	27,671	31,667
All Species	75,295	430,547	170,593	201,344	61,424	863,908	312,989	183,450	646,289	219,892	1,362,620	2,301,824

*Others include burbot and fish not identified by respondents

Table B12. Weight of fish kept in each fisheries management zone and survey area by active non-resident Canadian adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central				Southern					
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	10,655	28,207	26,789	3,846	1,113	59,956	15,627	2,766	4,385	340	23,118	93,729
Walleye	4,396	35,341	5,894	7,255	2,118	50,608	6,876	1,878	9,649	416	18,819	73,823
Perch	1,018	2,103	990	14	0	3,107	3,890	206	2,041	36	6,173	10,298
Lake Trout	8,246	4,836	5,146	0	0	9,982	0	0	0	0	0	18,228
Totals	24,315	70,487	38,819	11,115	3,231	123,652	26,393	4,851	16,075	792	48,111	196,078
Stocked Species												
Rainbow Trout	112	375	112	45	0	532	3,199	202	3,361	0	6,762	7,405
Brook Trout	0	0	0	15	0	15	0	0	0	0	0	15
Brown Trout	0	0	0	0	0	0	0	0	0	0	0	0
Splake	185	1,300	111	74	0	1,486	0	0	0	0	0	1,671
Totals	297	1,675	223	134	0	2,032	3,199	202	3,361	0	6,762	9,091
Other Species												
Whitefish	258	0	86	57	0	143	1,690	0	86	0	1,775	2,176
Goldeye	0	0	0	0	102	102	0	21	21	0	43	145
Grayling	0	0	0	0	0	0	0	0	0	0	0	0
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	44	29	0	0	73	0	0	0	59	59	132
Totals	258	44	115	57	102	319	1,690	21	107	59	1,877	2,453
All Species	24,870	72,207	39,157	11,307	3,333	126,003	31,281	5,075	19,542	851	56,749	207,622

*Others include burbot and fish not identified by respondents

Table B13. Weight of fish kept in each fisheries management zone and survey area by active non-resident other adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	31,445	40,828	1,184	871	1,936	44,819	2,105	269	4,448	891	7,714	83,978
Walleye	18,976	33,499	343	1,246	6,368	41,456	1,442	585	18,488	1,603	22,118	82,550
Perch	0	197	0	0	44	241	44	3	2,866	56	2,969	3,210
Lake Trout	17,732	6,739	327	0	262	7,328	0	0	0	0	0	25,060
Totals	68,153	81,263	1,854	2,118	8,610	93,845	3,591	857	25,802	2,550	32,801	194,799
Stocked Species												
Rainbow Trout		475	119	0	0	37	156	0	0	525	0	525
Brook Trout	0	31	0	0	0	31	0	0	0	0	0	31
Brown Trout	0	0	0	0	0	0	0	0	0	0	0	0
Splake	0	0	0	0	0	0	0	0	0	0	0	0
Totals	475	150	0	0	37	187	0	0	525	0	525	1,187
Other Species												
Whitefish	121	151	0	0	0	151	0	30	0	0	30	302
Goldeye	0	0	0	0	42	42	0	0	0	0	0	42
Grayling	238	0	0	0	0	0	0	0	0	0	0	238
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	31	0	0	7	38	0	0	94	0	94	132
Totals	359	182	0	0	49	231	0	30	94	0	124	713
All Species	68,986	81,595	1,854	2,118	8,696	94,263	3,591	887	26,421	2,550	33,449	196,698

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B14. Weight of fish kept in each fisheries management zone and survey area by total active non-resident adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central		Southern							
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	42,100	69,035	27,973	4,718	3,049	104,775	17,732	3,036	8,833	1,231	30,832	177,707
Walleye	23,372	68,840	6,237	8,501	8,485	92,064	8,318	2,463	28,137	2,019	40,938	156,373
Perch	1,018	2,300	990	14	44	3,348	3,934	210	4,907	92	9,142	13,508
Lake Trout	25,978	11,576	5,473	0	262	17,310	0	0	0	0	0	43,289
Totals	92,468	151,750	40,673	13,233	11,840	217,497	29,984	5,708	41,877	3,342	80,911	390,876
Stocked Species												
Rainbow Trout	587	494	112	45	37	688	3,199	202	3,885	0	7,286	8,561
Brook Trout	0	31	0	15	0	46	0	0	0	0	0	46
Brown Trout	0	0	0	0	0	0	0	0	0	0	0	0
Splake	185	1,300	111	74	0	1,486	0	0	0	0	0	1,671
Totals	772	1,825	223	134	37	2,219	3,199	202	3,885	0	7,286	10,277
Other Species												
Whitefish	379	151	86	57	0	294	1,690	30	86	0	1,805	2,478
Goldeye	0	0	0	0	144	144	0	21	21	0	43	187
Grayling	238	0	0	0	0	0	0	0	0	0	0	238
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	75	29	0	7	111	0	0	94	59	152	264
Totals	616	226	115	57	151	549	1,690	51	200	59	2,001	3,166
All Species	93,856	153,802	41,011	13,424	12,028	220,265	34,872	5,962	45,963	3,401	90,198	404,320

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B15. Weight of fish kept in each fisheries management zone and survey area by all active adult anglers in Saskatchewan, 2000.

Species	Area Fished											Total
	Northern		Central			Southern						
	North	North Central	Northwest Central	Northeast Central	Tobin Lake	Total	Southwest Central	Southeast Central	South	Qu'Appelle	Total	
Major Species												
Pike	79,387	260,960	153,455	97,660	20,853	532,929	221,858	77,820	137,497	49,814	486,989	1,099,305
Walleye	37,344	252,048	38,842	93,004	49,211	433,104	71,000	82,989	248,703	97,306	499,998	970,446
Perch	1,117	16,798	10,261	2,500	1,053	30,613	34,342	18,702	91,946	65,842	210,833	242,563
Lake Trout	48,495	41,914	6,089	7,368	262	55,633	0	1,375	0	0	1,375	105,503
Totals	166,344	571,720	208,648	200,532	71,379	1,052,279	327,200	180,886	478,146	212,963	1,199,195	2,417,817
Stocked Species												
Rainbow Trout	1,426	5,769	1,522	6,984	1,511	15,787	9,419	6,416	203,619	2,244	221,698	238,910
Brook Trout	71	279	0	2,916	0	3,195	0	230	212	0	442	3,708
Brown Trout	0	40	236	388	0	665	0	0	174	0	174	838
Splake	695	4,257	719	2,727	0	7,703	890	0	748	0	1,638	10,036
Totals	2,192	10,345	2,477	13,015	1,511	27,349	10,309	6,646	204,753	2,244	223,952	253,493
Other Species												
Whitefish	379	1,285	415	452	63	2,215	8,917	30	6,062	343	15,353	17,946
Goldeye	0	0	0	0	321	321	0	1,258	1,531	0	2,789	3,109
Grayling	238	0	0	0	0	0	0	0	332	0	332	569
Sturgeon	0	0	0	0	0	0	0	0	0	0	0	0
Other*	0	998	64	769	179	2,010	1,435	592	1,428	7,743	11,198	13,208
Totals	616	2,283	479	1,221	562	4,546	10,352	1,880	9,353	8,086	29,671	34,833
All Species	169,152	584,348	211,604	214,768	73,453	1,084,174	347,861	189,413	692,252	223,293	1,452,819	2,706,144

*Others include burbot and fish not identified by respondents

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B16. The average number of fish of the major species kept per angler-day and per angler in the North area of Saskatchewan, 2000.

Area Fished	Resident Total	Non-Resident		Total	Total
		Canadian	Other		
Harvest per angler-day					
Pike	0.70	0.38	0.41	0.40	0.51
Walleye	0.42	0.25	0.40	0.36	0.38
Perch	0.01	0.26	0.00	0.07	0.05
Lake trout	0.34	0.23	0.18	0.20	0.24
Major species	1.48	1.13	1.00	1.03	1.18
All species	1.51	1.16	1.02	1.06	1.21
Harvest per angler					
Pike	4.09	2.97	2.17	2.32	2.92
Walleye	2.47	1.97	2.10	2.08	2.21
Perch	0.08	2.01	0.00	0.40	0.29
Lake trout	1.96	1.82	0.97	1.14	1.41
Major species	8.60	8.78	5.24	5.94	6.83
All species	8.82	9.01	5.34	6.07	6.99

Note: Shaded figures represent species whose distribution in that survey area is questionable.

Table B17. The average number of fish of the major species kept per angler-day and per angler in the North Central area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.71	0.53	0.88	0.70	0.71
Walleye	0.96	0.94	1.01	0.97	0.96
Perch	0.32	0.24	0.03	0.14	0.27
Lake trout	0.08	0.06	0.10	0.08	0.08
Major species	2.07	1.77	2.01	1.88	2.01
All species	2.12	1.81	2.03	1.91	2.06
Harvest per angler					
Pike	4.60	3.08	4.48	3.78	4.36
Walleye	6.18	5.42	5.16	5.29	5.91
Perch	2.09	1.38	0.13	0.76	1.68
Lake trout	0.49	0.35	0.50	0.42	0.47
Major species	13.38	10.24	10.27	10.25	12.40
All species	13.72	10.45	10.33	10.39	12.70

Table B18. The average number of fish of the major species kept per angler-day and per angler in the Northwest Central area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.97	0.53	0.56	0.53	0.85
Walleye	0.36	0.16	0.23	0.17	0.30
Perch	0.43	0.12	0.00	0.11	0.34
Lake trout	<0.01	0.07	0.10	0.07	0.02
Major species	1.76	0.89	0.90	0.89	1.51
All species	1.79	0.89	0.90	0.89	1.53
Harvest per angler					
Pike	3.02	2.92	0.13	1.53	2.56
Walleye	1.10	0.90	0.05	0.48	0.91
Perch	1.34	0.65	0.00	0.33	1.03
Lake trout	0.01	0.38	0.02	0.20	0.07
Major species	5.46	4.85	0.21	2.54	4.57
All species	5.55	4.91	0.21	2.56	4.64

Table B19. The average number of fish of the major species kept per angler-day and per angler in the Northeast Central area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.51	0.46	0.71	0.49	0.51
Walleye	0.65	1.21	1.43	1.24	0.68
Perch	0.08	0.01	0.00	0.01	0.08
Lake trout	0.03	0.00	0.00	0.00	0.03
Major species	1.27	1.67	2.14	1.73	1.29
All species	1.39	1.70	2.14	1.76	1.41
Harvest per angler					
Pike	3.56	2.48	2.22	2.42	3.48
Walleye	4.54	6.56	4.46	6.14	4.65
Perch	0.57	0.05	0.00	0.04	0.53
Lake trout	0.19	0.00	0.00	0.00	0.18
Major species	8.86	9.09	6.69	8.60	8.84
All species	9.72	9.25	6.69	8.74	9.65

Table B20. The average number of fish of the major species kept per angler-day and per angler in the Tobin Lake area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.18	0.24	0.19	0.21	0.19
Walleye	0.59	0.64	0.89	0.81	0.62
Perch	0.06	0.00	0.03	0.02	0.06
Lake trout	0.00	0.00	0.02	0.01	<0.01
Major species	0.84	0.89	1.12	1.05	0.87
All species	0.87	0.97	1.14	1.09	0.90
Harvest per angler					
Pike	1.28	0.99	0.96	0.97	1.22
Walleye	4.12	2.64	4.41	3.78	4.06
Perch	0.44	0.00	0.13	0.08	0.37
Lake trout	0.00	0.00	0.09	0.06	0.01
Major species	5.84	3.62	5.58	4.88	5.66
All species	6.05	3.97	5.69	5.08	5.87

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B21. The average number of fish of the major species kept per angler-day and per angler in the Southwest Central area of Saskatchewan, 2000.

Area Fished	Total	Non-Resident		Total	Total
		Canadian	Other		
Harvest per angler-day					
Pike	0.89	0.52	1.06	0.55	0.85
Walleye	0.33	0.27	0.88	0.31	0.33
Perch	0.62	0.61	0.10	0.58	0.62
Lake trout	0.00	0.00	0.00	0.00	0.00
Major species	1.84	1.40	2.04	1.44	1.79
All species	1.92	1.56	2.04	1.58	1.88
Harvest per angler					
Pike	6.67	3.07	5.18	3.22	6.14
Walleye	2.47	1.63	4.29	1.83	2.38
Perch	4.69	3.61	0.51	3.38	4.49
Lake trout	0.00	0.00	0.00	0.00	0.00
Major species	13.80	8.31	9.97	8.43	13.01
All species	14.40	9.24	9.97	9.29	13.63

Table B22. The average number of fish of the major species kept per angler-day and per angler in the Southeast Central area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.34	0.54	0.18	0.46	0.35
Walleye	0.45	0.44	0.47	0.45	0.45
Perch	0.40	0.19	0.01	0.15	0.39
Lake trout	<0.01	0.00	0.00	0.00	<0.01
Major species	1.19	1.17	0.66	1.06	1.19
All species	1.24	1.22	0.68	1.10	1.24
Harvest per angler					
Pike	3.14	2.29	1.22	2.12	3.08
Walleye	4.09	1.88	3.20	2.08	3.98
Perch	3.67	0.81	0.07	0.69	3.50
Lake trout	0.03	0.00	0.00	0.00	0.03
Major species	10.93	4.97	4.50	4.90	10.59
All species	11.39	5.17	4.66	5.09	11.04

Note: Shaded figures represent species whose distribution in that survey area is questionable

Table B23. The average number of fish of the major species kept per angler-day and per angler in the South area of Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.22	0.22	0.34	0.26	0.23
Walleye	0.47	0.58	1.69	1.02	0.50
Perch	0.72	0.48	1.02	0.70	0.72
Lake trout	0.00	0.00	0.00	0.00	0.00
Major species	1.41	1.28	3.05	1.98	1.44
All species	1.74	1.43	3.10	2.09	1.76
Harvest per angler					
Pike	2.38	1.24	1.75	1.46	2.29
Walleye	4.94	3.32	8.77	5.61	5.01
Perch	7.62	2.74	5.32	3.82	7.23
Lake trout	0.00	0.00	0.00	0.00	0.00
Major species	14.95	7.31	15.84	10.89	14.54
All species	18.49	8.19	16.10	11.50	17.79

Table B24. The average number of fish of the major species kept per angler-day and per angler in the Qu'Appelle area of Saskatchewan, 2000.

Area Fished	Total	Non-Resident		Total	Total
		Canadian	Other		
Harvest per angler-day					
Pike	0.18	0.11	0.30	0.21	0.18
Walleye	0.43	0.16	0.66	0.41	0.42
Perch	1.15	0.06	0.09	0.07	1.12
Lake trout	0.00	0.00	0.00	0.00	0.00
Major species	1.75	0.33	1.05	0.68	1.73
All species	1.82	0.37	1.05	0.71	1.80
Harvest per angler					
Pike	2.10	0.68	1.15	0.96	2.04
Walleye	4.98	1.00	2.49	1.91	4.82
Perch	13.43	0.34	0.34	0.34	12.74
Lake trout	0.00	0.00	0.00	0.00	0.00
Major species	20.51	2.01	3.98	3.21	19.60
All species	21.34	2.27	3.98	3.31	20.40

Table B25. The average number of fish of the major species kept per angler-day and per angler in Saskatchewan, 2000.

Area Fished	Resident	Non-Resident		Total	Total
	Total	Canadian	Other		
Harvest per angler-day					
Pike	0.44	0.46	0.54	0.49	0.45
Walleye	0.51	0.50	0.79	0.62	0.52
Perch	0.58	0.29	0.13	0.22	0.53
Lake trout	0.02	0.06	0.11	0.08	0.03
Major species	1.55	1.30	1.57	1.41	1.53
All species	1.70	1.37	1.60	1.46	1.66
Harvest per angler					
Pike	3.73	2.82	2.78	2.80	3.56
Walleye	4.32	3.04	4.04	3.49	4.17
Perch	4.94	1.77	0.66	1.26	4.25
Lake trout	0.15	0.35	0.57	0.45	0.21
Major species	13.14	7.98	8.05	8.01	12.18
All species	14.39	8.39	8.15	8.28	13.25



Appendix C. Average weights of fish for each species and management zoneTable C1. Average weights of fish for each species and management zone used for analysis in the survey, 1980-2000^a.

Species Code	Species	Management Zone					
		Northern ^b		Central ^c		Southern ^d	
		kg	lb	kg	lb	kg	lb
51	Northern Pike	1.56	3.44	1.32	2.91	1.04	2.29
81	Walleye	0.97	2.14	0.94	2.07	0.86	1.90
82	Perch	0.22	0.49	0.22	0.49	0.22	0.49
11	Lake Trout	1.97	4.34	1.97	4.34	1.97	4.34
12	Rainbow Trout	1.19	2.62	1.19	2.62	1.19	2.62
13	Brook Trout	0.47	1.04	0.47	1.04	0.47	1.04
14	Brown Trout	0.53	1.17	0.53	1.17	...	...
16	Splake	1.18	2.60	1.18	2.60	1.18	2.60
15	Kokanee	...	...	0.50	1.10	...	...
22	Whitefish	0.91	2.01	0.91	2.01	0.91	2.01
41	Goldeye	...	...	0.34	0.75	0.34	0.75
31	Grayling	0.55	1.21	0.55	1.21	0.55	1.21
01	Sturgeon	...	...	5.45	12.75	...	...
83	Sauger	0.97	2.14	0.94	2.07	0.86	1.9
99	Other	0.47	1.04	0.47	1.04	0.47	1.04

^a Source of weights was A.R. Murray, unpublished.^b Northern zone covers survey area 1 (See Figure 1)^c Central zone covers survey areas 2,3,6, and 7^d Southern zone covers survey areas 4,5,8, and 9

